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EXPLORING COGNITIVELY ACCESSIBLE ACADEMIC LESSONS FOR STUDENTS WITH INTELLECTUAL DISABILITIES USING THE *IPAD*

By

Jamie Linn Gunderson

Bachelor of Science in Special Education University of Nevada, Las Vegas 2006

Master of Education in Special Education University of Nevada, Las Vegas 2008

A dissertation submitted in partial fulfillment of the requirements for the

Doctor of Philosophy - Special Education

Department of Education and Clinical Studies College of Education The Graduate College

> University of Nevada, Las Vegas May 2015

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We recommend the dissertation prepared under our supervision by

Jamie Linn Gunderson

entitled

Exploring Cognitively Accessible Academic Lessons for Students with Intellectual Disabilities Using iPads

is approved in partial fulfillment of the requirements for the degree of

Doctor of Philosophy - Special Education

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May 2015

ABSTRACT

Exploring Cognitively Accessible Academic Lessons for Students with Intellectual Disabilities Using the *iPad*

by

Jamie Linn Gunderson

Dr. Kyle Higgins, Committee Chair Professor of Special Education University of Nevada, Las Vegas

Students with intellectual disabilities often lack access to general education curricula. This is because many teachers struggle with adapting these curricula to meet the unique learning needs of these students. Technology, having the potential to facilitate access to general education curricula, has been successfully used as a tool to adapt curriculum for this population. The use of the *iPad* (Apple, 2010), which is easily programmed to support the unique needs of students with disabilities, is beginning to be explored as a tool for the learning and instruction of students with intellectual disabilities and results have been favorable. Further research is needed to evaluate the efficacy of using *iPad* (Apple, 2010) technology as a curricular support and methods for successfully incorporating this technology into instruction must also be explored.

This study focused on providing access to academic content aligned to general education content standards through the use of an *iPad* (Apple, 2010). Two instructional conditions were compared, traditional teaching involving paper and pencil and teaching involving *iPad* (Apple, 2010) technology. Data were compared to determine the effects of the intervention on the academic content knowledge, work completion, and engagement of students with intellectual disabilities. Student perceptions concerning the

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use of *iPads* (Apple, 2010) as learning tools were collected and evaluated at the conclusion of the study.

The results indicated that although the *iPad* (Apple, 2010) did not have a significant effect on increasing the academic content knowledge or maintenance of knowledge over time, the *iPad* (Apple, 2010) did have a significant effect on the work completion and engagement of students with intellectual disabilities. Moreover, students participating in the study responded favorably about using the *iPad* (Apple, 2010) as a learning tool.

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your beautiful minds to! I thank the world's greatest in-laws, Barry and June, for the advice, guidance, and unconditional support... I am so lucky to be a part of the Gunderson family! Lastly, and most importantly, I thank my husband, John. Thank you for being my biggest fan, my rock, and my coach. I could not have done this without you and while I know it was hard, we made it together! We can accomplish anything when we stand together and I look forward to our future adventures! I love you more than you will ever know!

Dedicated to Papa.

Thank you for all the pep talks. I love you!

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CHAPTER ONE

INTRODUCTION

Significant limitations in intellectual and adaptive functioning as well as poor conceptual, social, and practical skills, tend to be universal among students identified as having an intellectual disability (ID) (Lukasson et al., 2002; Schalock et al., 2010). Limitations in memory, attention, focus, reasoning, processing, problem solving, generalization, and abstract conceptualization also are common characteristics of this population (Agran & Wehmeyer, 2005; Downing, 2010; Munde, Vlaskamp, Rullssenaars, & Nakken, 2009). These limitations can inhibit: (a) language and communication skills, (b) reading and writing skills, and (c) math skills, ultimately contributing to academic underachievement (Browder, Spooner, Ahlgrim-Delzell, Harri, & Wakeman, 2008; Ratz & Lenhard, 2013; Schuit, Segers, Balkom, & Verhoeven, 2011). However, the literature maintains that students with ID can, and do, learn academic skills with the application of direct and systematic instruction (Agran, Cavin, Wehmeyer, & Palmer, 2006; Bradford, Alberto, Houchins, Shippen, & Flores, 2006; Browder, Wakeman, Spooner, Ahlgrim-Delzell, & Algozzine, 2006; Downing, 2008). Furthermore, research indicates that these students can learn academic tasks through small group instruction (Falkenstine, Collins, Schuster, & Kleinert, 2009; Farmer, Gast, Wolery, & Winterling, 1991). Both points lend support to the belief that instruction for students with ID, including any adaptations or modifications, should be aligned to academic content and occur in typical or natural settings (Agran et al., 2006; Downing, 2010).

Despite research and federal policies (e.g., Individuals with Disabilities Education Act [IDEA, 1997], the reauthorization amendments [IDEA, 2004], the No Child Left

Behind Act [NCLB, 2001]) mandating that students with disabilities have access to general education curricula and environments, these students continue to receive their education in segregated and specialized classrooms (Peetsma, Vergeer, Roeleveld, & Karsten, 2010; Smith, 2007; Williamson, McLeskey, Hoppey, & Rentz, 2006). This segregation limits the potential for learning interactions with peers without disabilities (Downing, 2010; Peetsma et al., 2010). Unfortunately, separate learning environments for this population are not reflective of the general education classroom in which all students are expected to achieve (Downing, 2010). Moreover, most of these segregated or self-contained environments maintain lower learning expectations for these students (Karagiannis, Stainback, & Stainback, 1996).

Current research supports that both functional and academic curricula are central to educating and meeting the needs of students with ID (Downing, 2010). However, instruction for these students often lacks a focus on academics (e.g., reading, writing, math) fundamental to the mandates for general education curricular alignment (Browder et al., 2008; Browder, Spooner, Wakeman, Trela, & Baker, 2006). This has resulted in an increased demand for curricular modifications to facilitate greater academic as well as functional access for students with ID (Spooner, Dymond, Smith, & Kennedy, 2006; Wehmeyer, 2006; Wehmeyer, Smith, & Davies, 2005).

Access to the General Education Curriculum

While research supports the belief that students with ID are capable of progressing within general education curricula, barriers to access remain (Soukup, Wehmeyer, Bashinski, & Bovaird, 2007). Students educated in self-contained settings continue to lack access to curricula and instruction aligned to current academic content

standards (Soukup et al., 2007; Wehmeyer, Latin, Lapp-Rinker, & Agran, 2003). Typically, this occurs because: (a) educators experience difficulty identifying modifications needed to support diverse learning needs, and (b) school districts have not aligned adapted curricula to current content standards (Spooner et al., 2006). Other factors impeding student access include lack of teacher preparation, low teacher retention in the field, and the deterrent of standardized testing accountability (Spooner et al., 2006; Wehmeyer, 2006). Unfortunately, even under the best learning conditions (e.g., peer supports, curricular modifications, curricula alignment), appropriate application is infrequent and results in a lack of access to general education curricula (Lee, Wehmeyer, Soukup, & Palmer, 2010; Wehmeyer, Lattin, & Agran, 2001; Wehmeyer, Sands, Knowlton, & Kozleski, 2002).

Curricular Adaptations for Students with Intellectual Disabilities

Students with ID require individualized supports, curricular modifications, adapted materials, and differentiated instruction to be successful when general education curricula are used (Agran et al., 2006; Downing, 2010; Spooner et al., 2006; Wehmeyer, 2006). The research is replete with evidence-based instructional strategies and modifications that are successful with students with ID. These include teaching learningto-learn strategies, meta-cognitive skills, task analysis, and self-determination strategies to facilitate active participation and engagement (Agran et al., 2006; Spooner, Knight, Browder, & Smith, 2011; Lee et al., 2006; Lee, Wehmeyer, Palmer, Soukup, & Little, 2008; Shogren, Palmer, Wehmeyer, Williams-Diehm, & Little, 2012). However, research indicates that teachers seldom make curricular adaptations or augmentations in selfcontained classrooms and appropriately adapted curricular materials are rarely provided

(Lee et al., 2010). This restricts students with ID to curricula that are: (a) cognitively inaccessible, and (b) not aligned to the general education content standards (Lee, Soukup, Little, & Wehmeyer, 2009; Soukup et al., 2007; Wehmeyer et al., 2003). In order to generate standards-aligned curricula that are cognitively accessible for students with ID, individualized curricular adaptations are required (Wehmeyer et al., 2002). These adaptations modify the presentation and representation of information without altering content (Lee et al., 2010; Wehmeyer, Lance, & Bashinski, 2002; Wehmeyer et al., 2001).

Theoretical Framework of Universal Design for Learning

Research concerning the curricular limitations for students with ID focuses on the implementation of Universal Design for Learning (UDL) principles (Doyle & Giangreco, 2009; Lee et al., 2010; Wehmeyer, 2006). These principles support accessibility by providing levels of knowledge acquisition, a variety of options, and alternatives for demonstrating learning (Gordon, Gravel, & Schifter, 2009). Research indicates that UDL can impact motivation and increase student engagement (Dymond et al., 2006). The application of UDL in the creation of curricula for students with ID to eradicate learning barriers is supported in the literature (Wehmeyer, 2006; Wehmeyer et al., 2005). However, UDL, originally designed to support diverse learners in general education, requires further adaptations to meet the needs of students with ID (Edyburn, 2013). These adaptations (e.g., literacy supports, adapted materials, technology) can be implemented to support the learning limitations of these students (Downing, 2010; Wehmeyer, Palmer, Smith, Davies, & Stock, 2008; Wehmeyer et al., 2001).

Technology is a medium for incorporating UDL into the curricular adaptation process (Wehmeyer et al., 2001; Wehmeyer et al., 2008; Wehmeyer, Palmer, Smith,

Parent, Davies, & Stock, 2006). Through technology, various components of UDL (e.g., representation, expression, engagement) may be customized and used as tools to increase access, enhance instruction, and address learner limitations (Dymond et al., 2006; Edyburn, 2013; Wehmeyer et al., 2005).

Technology and Students with Intellectual Disabilities

The potential of technology to factor positively into the quality of life for people with ID is well established in the literature (Braddock, Rizzolo, Thompson, & Bell, 2004; Palmer, Wehmeyer, Davies, & Stock, 2012; Tanis et al., 2012). For individuals with ID, technology often serves as a bridge between their abilities and contextual demands (Wehmeyer, Tasse, Davies, & Stock, 2012). Technology also has the power to impact the educational success, socialization, and independent living skills of people with ID, when used appropriately (Palmer et al., 2012; Wehmeyer et al., 2012).

Efficacy of Technological Use by Individuals with Intellectual Disabilities

Overall, research confirms technology is an effective learning tool for students with ID (Wehmeyer et al., 2008; Wehmeyer et al., 2012). The use of technology to promote self-determination, literacy, vocation, and community skills has proved effective for this population (Davies, Stock, Holloway, & Wehmeyer, 2010; Mechling & O'Brien, 2010; Stock, Davies, Wehmeyer, & Lachapelle, 2011). Research exploring the use of computers (i.e., desktops, laptops, handhelds), *SMARTboards*, and cell phones with this population yields positive results (Bramlett, Ayres, Douglas, & Cihak, 2011; Bryen, Carey, Friedman, & Taylor, 2007; Mechling, Gast, & Thompson, 2008; Stock, Davies, Wehmeyer, & Palmer, 2008). Though in its infancy, research examining the learning implications of the *iPod Touch* (Apple, 2007) for individuals with disabilities has

generated promising results (Hammond, Whatley, Ayres & Gast, 2010; Kelley, Test, & Cooke, 2013; Van Laarhoven, Johnson, Van Laarhoven-Myers, Grider, & Grider, 2009).

Access to and Utilization of Technology

Even with the research indicating that technology contributes to a better quality of life for individuals with ID, access limitations and underutilization continue to be documented by family members, educators, and researchers, (Palmer et al., 2012; Tanis et al., 2012; Wehmeyer, Smith, Palmer, & Davies, 2004). When surveyed, individuals with ID report access barriers as a hindrance to their technology use (Carey, Friedman, & Bryen, 2005; Tanis et al., 2012). The barriers indentified in the literature are cost, availability, training, maintenance, and device complexity (Stock, Davies, Davies, & Wehmeyer, 2006; Wehmeyer, 1999). In addition to extant access barriers (e.g., underutilization, technology abandonment), the belief exists that students with ID cannot or will not become proficient users of sophisticated technology (Alper & Raharinirina, 2006; Carey et al., 2005; Wehmeyer et al., 2012). This prediction often leads to technology not being placed in self-contained classrooms for these students as well as little provision of technology to these students on a school-wide basis (Wehmeyer et al., 2004).

Though usage trends for students with ID remain lower than that of the general population, surges in the use of cell phones, digital cameras, and email by people with ID are occurring (Palmer et al., 2012; Stock et al., 2011; Stock et al., 2008). In a recent survey by Tanis et al. (2012), over two-thirds of respondents with ID indicated that they used email and nearly half reported using cell phones. However, cognitively accessible

design remains an obstacle to the successful utilization of technology by this population (Palmer et al., 2012; Tanis et al., 2012; Wehmeyer et al., 2012).

Considerations for Cognitively Accessible Technology

Cognitive accessibility is a major hindrance to technological access and learning because the conceptual skills required to navigate and operate many technologies can be complex and confusing (Wehmeyer et al., 2008; Wehmeyer et al., 2004). Deficits in memory, attention, abstract conceptualization, and generalization along with limitations in problem solving, language, communication, and literacy skills also impact technological usage for these students (Wehmeyer et al., 2005; Wehmeyer et al., 2004).

Students with ID experience difficulty with device navigation (e.g., recalling program menus, features, and operations) and technological operations involving language, communication, or literacy skills (e.g., keyboarding, internet browsing, understanding computer terminology) (Davies, Stock, & Wehmeyer, 2001; Douglas, Ayres, Langone, Bell, & Mead, 2009; Wehmeyer et al., 2004). In addition, problem solving limitations and attention deficits prevent these students from successfully correcting technological errors (e.g., error messages, program failure, device malfunction) before losing interest or becoming distracted by other interface options (Wehmeyer et al. 2005). Other technological problems for students with ID include difficulty conceptualizing mouse-to-screen operations and a limited capacity for meaningful and sustained engagement (Davies et al., 2001; Wehmeyer et al., 2005; Wehmeyer et al., 2004).

Conceptual Framework of Universally Designed Technology

More specific to special education technology, the Universal Design (UD) principles are a framework for accessible technological design and include: (a) access for a variety of users (i.e., equitable use), (b) accommodations for a range of abilities (i.e., flexible use), (c) ease of understanding (i.e., simple and intuitive use), (d) communication of essential information (i.e., perceptible information), (e) provisions for mistakes (i.e., tolerance for error), (f) minimal effort requirements (i.e., low physical effort), and (g) provisions for independent access (i.e., size, space) (Gordon et al., 2009; Wehmeyer et al., 2008; Wehmeyer et al., 2005). Incorporating the UD principles into technological design can support learning limitations and has the potential to remove traditional barriers to general education curricula for students with disabilities (Edyburn, 2013; Gordon et al., 2009). By eliminating these barriers, technology can become a catalyst for increasing access to general education curricula for students with ID (Wehmeyer et al., 2008; Wehmeyer et al., 2006; Wehmeyer et al., 2012). While exploration of the impact of UD technology is limited, the current literature supports research in this area to increase the usage of a wide array of technologies by this population of students (Edyburn, 2013; Tanis et al., 2012).

Specific technological considerations for students with intellectual

disabilities. The conceptual framework for UD technology provides a starting point for addressing the technological access needs of students with ID (Edyburn, 2013; Wehmeyer et al., 2012). However, more specific considerations are needed to facilitate cognitive accessibility. Literacy support, consistent operation, and the capacity for individualization all impact cognitive accessibility and must be considered in

technological design (Stock et al., 2006; Stock et al., 2008; Wehmeyer et al., 2006). Using specific student characteristics in the evaluation and selection of educational and assistive technology may increase the likelihood that the technology will be cognitively accessible and successfully used (Wehmeyer, et al., 2004). Specific to students with ID, considerations for cognitively accessible technology include: (a) simple and consistent operation and navigation, (b) intuitive interfaces, (c) error tolerance, (d) flexible use features and literacy supports, (e) access to information across environments, and (f) the capacity for customization and individualization (Davies et al., 2001; Stock et al., 2006; Stock et al., 2008). These specific considerations correlate to the theoretical and conceptual frameworks of UDL and UD technology (Wehmeyer et al., 2005).

Current research describes the specific technological cognitive accessibility features (e.g., digital materials, picture-based menus, touch screen interfaces) as fundamental requisites to accessible technology for students with ID (Davies et al., 2001; Stock et al., 2006; Stock et al., 2008). With the capacity for customization, digital materials can alter characteristics such as font size, color, or background to meet individual student needs and preferences (Douglas et al., 2009; Dymond et al., 2006). As a strong support for learning and independence, the use of picture-based menus provides essential reinforcement to a user with reading problems and is essential to cognitive accessibility (Davies et al., 2001; Stock et al., 2008). Research also indicates that touch screen interfaces are more intuitive and easily accessed by users with ID (Stock et al., 2011; Stock et al., 2008). With the potential to offer a less complicated technological experience, touch screen interfaces provide the functionality of a mouse without requiring

the conceptualization of abstract spatial concepts (Davies, Stock, & Wehmeyer, 2002; Wehmeyer et al., 2005).

The *iPad* as a Cognitively Accessible Tool for Students with Intellectual Disabilities

Since its release in 2010, the *iPad* (Apple, 2010) has gained popularity among students, educators, and parents (Mellhuish & Falloon, 2010). In an interesting paradigm shift, school districts are investing heavily in *iPad* (Apple, 2010) technology, though little research supporting the efficacy of the device has been conducted (Newton & Dell, 2011). This may be due to the social popularity of the device peaking the interest of many teachers, parents, and students with disabilities (Banister, 2010; Cumming & Strnadova, 2012).

Even though the research has provided a plethora of strategies and interventions to increase access for students with ID, many technologies used with this population do not have the capacity to provide cognitive accessibility features to support the learning limitations of this population (Wehmeyer et al., 2008). However, the *iPad* (Apple, 2010) includes a variety of features that may directly support the learning limitations of students with ID and increase the potential for cognitive accessibility (Cumming & Strnadova, 2012; Palmer et al., 2012). These features include: (a) simple and consistent operation and navigation (e.g., touch screen, single home-button navigation, repetitive device operation through taps and gestures), (b) the capacity to limit or restrict options and prevent error (e.g. guided access, restrictions, *iTunes, iCloud* backup), (c) literacy supports (e.g., picture-supported icons, voice over, speak selection, audio and video playback, text-to-speech, voice recognition capabilities), and (d) the capacity for

individualization and customization to meet learner needs (e.g., font size, invert colors, home screen customization, assistive touch, downloadable applications).

While research on the efficacy of *iDevice* technology with students with ID is just beginning, it appears that the *iPad* (Apple, 2010) has the potential to support a variety of learning limitations and increase access to general education curricula (Cumming, & Strnadova, 2012; Herlihy, 2011; Kagohara et al., 2013; O'Malley et al., 2013). Continued research in this area will provide information concerning the efficacy of this technology and may have implications for classroom application (Kagohara et al., 2013; O'Malley et al., 2013).

Statement of the Problem

Students with ID lack access to both the general education curricula and technology primarily because these learning tools are cognitively inaccessible (Lee et al., 2010; Palmer et al., 2012; Spooner et al., 2006). These students, already at risk for academic underachievement, typically are not provided materials that support learning limitations or align to the general education curricula (Lee et al., 2006; Wehmeyer, 2006). Thus, it is critical to investigate possible instructional interventions to promote both curricular and technological cognitive accessibility.

This study designed and implemented an instructional intervention (i.e., curriculum adaption) for students with ID that aligned to the Common Core State Standards (CCSS) through the use of an *iPad* (Apple, 2010). The goals of this study were to: (a) introduce students with ID to the general education curricula, and (b) examine the impact of *iPad* (Apple, 2010) technology on the acquisition of knowledge by this

population. Through a comparison of two instructional groups, specific questions regarding student achievement and engagement were addressed. The specific research questions addressed by this study were:

Research Question One. Does the content knowledge of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities increase with the use of the *iPad* (Apple, 2010) when compared to traditional teaching methods?

Research Question Two. Is the content knowledge of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities better maintained with the use of the *iPad* (Apple, 2010) when compared to traditional teaching methods?

Research Question Three. Does the work completion of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities differ with the use of digital worksheets on the *iPad* (Apple, 2010) when compared to traditional worksheets?

Research Question Four. Do teacher perceptions of student engagement differ with the use of the *iPad* (Apple, 2010) when compared to traditional teaching methods?

Research Question Five. For the *iPad* (Apple, 2010) group, what are the student attitudes and beliefs concerning using the *iPad* (Apple, 2010) as a learning tool?

Significance

Facilitating access to general education curricula for students with ID is both mandated by federal law and supported throughout the research (IDEA, 2004; NLCB, 2001; Soukup et al., 2007). However, an academic instructional focus is rarely observed in self-contained special education classrooms (Browder et al., 2006; Browder et al., 2008). As such, addressing the need and methods for academic instruction for students

with ID is critical, regardless of the environment in which services are delivered (Downing, 2010).

Determining the efficacy of the *iPad* (Apple, 2010) as a learning tool to teach an adapted curriculum (i.e., aligned to general education curricula) may positively impact academic achievement for students with ID (O'Malley et al., 2013). This study compared the use of an adapted curriculum, aligned to the Common Core State Standards (CCSS), taught through two instructional formats (i.e., *iPad*, traditional teaching) to determine the most effective method for providing students with ID access to the general education curricula. The findings of this study contribute to the research of effective instructional strategies for students with ID related to the efficacy of cognitively accessible technology (e.g., *iPad*) and accessing the general education curricula.

Limitations

The limitations of this study are:

- 1. Classrooms were selected through convenience sampling and may not be a true reflection of other classrooms in which students with ID are taught.
- 2. Instructional interventions were implemented with students with ID in selfcontained special education classrooms and cannot be generalized to other disability groups or classroom types (e.g., general education, resource room).
- 3. The instructional interventions were implemented five days a week for four weeks. A longer intervention period may produce different results.

Summary

While technology has long been recognized as having the potential to enhance the education of students with ID, it is only recently that researchers have begun to explore the implications of *iPad* (Apple, 2010) technology (Kagohara et al., 2013; Palmer et al., 2012; Wehmeyer et al., 2012). Determining the efficacy of this cognitively accessible technology may result in progress for individuals with ID in the classroom, home, and community (O'Malley et al., 2013; Palmer et al., 2012; Tanis et al., 2012; Wehmeyer et al., 2012). Additionally, students with ID continue to lack access to general education curricula (Soukup et al., 2007). Thus, it is critical to begin teaching these students via instruction aligned to the general education curricula (i.e., Common Core State Standards). Using an appropriately adapted curriculum to teach this population academic content aligned to the CCSS will provide students access to a cognitively accessible version of the general education curricula. Ultimately, the goals of this study are to teach students with ID using general education curricula and increase content knowledge acquisition within those curricula. This will impact the academic achievement of students with ID and may facilitate greater independence for life.

Definition of Terms

The following list is representative of the terms used in this study. It is important to understand the use of these terms to clearly understand their meaning within the context of this study.

Academic instruction. Academic instruction consists of instruction with a focus on reading, writing, and mathematics (Browder et al., 2006).

Software application (*app*). A piece of software designed for a mobile technology device, including the *iPad* (Apple, 2010), which allows the user to perform specific tasks (e.g., learning, recreation, shopping). An *app* can be downloaded onto an *iPad* (Apple, 2010) or other iDevice.

Cognitive accessibility. Cognitive accessibility is the degree to which students with ID are able to understand the concepts of the general education curricula or the features of technology (Wehmeyer et al., 2004; Wehmeyer et al., 2005).

Common Core State Standards (CCSS). The Common Core State Standards (CCSS) are the nationally adopted set of academic learning standards for student education (i.e., kindergarten through grade 12) and focus on career and college readiness (National Governors Association Center for Best Practice, 2010).

Curricular adaptation. Curricular adaptations consist of strategies that modify curricula to better support learning limitations without altering content (Wehmeyer et al., 2002; Wehmeyer et al., 2001).

Digital worksheet. A digital worksheet is a digital listing of questions or tasks to be completed by students. Digital worksheets can be completed using an *iPad* (Apple, 2010).

Dropbox. *Dropbox* (Dropbox Inc, 2013) is an app that allows teachers to securely upload lesson fidelity videos directly from the iPad (Apple, 2010).

iBooks. *iBooks* (Apple, 2013) is an *app* that allows students to access the Unique Learning System (ULS) digital books on the *iPad* (Apple, 2010).

Intellectual disability (ID). A student who exhibits significantly below average intellectual functioning including limitations in at least two of the following areas: (a) communication skills, (b) self-care, (c) home living, (d) use of community, (e) social skills, (f) self-direction, (g) health and safety, (h) functional academics, (i) leisure, or (j) work, is present before the age of 18, and adversely affects educational performance (NAC 388.055, 2011).

iPad (Apple, 2010). The *iPad* (Apple, 2010) is a tablet computer with a touch screen interface. This dynamic display device is compatible with downloadable *apps* and is equipped with many accessibility features (e.g., touch screen, guided access) (Apple, 2010).

iPad guided access. Guided access is an accessibility feature of the *iPad* (Apple, 2010) that prevents students from navigating out of an active *app*, and can be used by an adult to disable access to *app* settings.

News-2-you (n2y, 2013). *News-2-you* (n2y, 2013) is an adapted newspaper designed for students with significant cognitive disabilities. The *news-2-you* (n2y, 2013) newspaper is available via the internet and *app*.

Notability. *Notability* (Ginger Labs, 2013) is an *app* that allows students to complete digital worksheets using the *iPad* (Apple, 2010).

Paper worksheet. A paper worksheet is a listing of questions or tasks to be completed by students using a pencil or writing apparatus.

Small group, direct instruction. Small group (e.g., 2-5 students), direct instruction consists of teacher-led instruction focused on reinforcement of recently taught information (Downing, 2010).

Special education teacher. A special education teacher is a person who holds a degree in teaching students with intellectual disabilities and currently meets the state licensure requirements to teach.

Unique Learning System (ULS) (n2y, 2013). The Unique Learning System (ULS) (n2y, 2013) is an adapted curriculum designed for students with significant cognitive disabilities. The ULS curriculum is aligned to the CCSS (National Governors Association Center for Best Practice, 2010).

Whole group, direct instruction. Instruction engaging all students, performed by a teacher (Hall, 2002).

CHAPTER TWO

REVIEW OF LITERATURE

Access to general education curricula for students with ID is supported throughout the research (Soukup et al., 2007; Wehmeyer et al., 2003). However, academic instruction (i.e., aligned to general education curricula) is rarely observed in self-contained special education classrooms (Browder et al., 2008; Browder et al., 2006) and accommodations, adaptations, or modifications to the curricula are rarely applied for students with ID (Soukup et al., 2007; Wehmeyer et al., 2003). A variety of observational studies (Dymond & Russell, 2004, Lee et al., 2009; Lee et al., 2010; Soukup et al., 2007; Wehmeyer et al., 2003) have come to similar conclusions, calling for a need to utilize curricular modifications.

Researchers and educators of students with ID are exploring curricular modifications, including augmentation and adaptation, as a tool to increase academic achievement for this population (Agran et al., 2006; Browder et al., 2007). Preliminary findings support the use of teaching self-determination or learning to learn strategies, adapting content and materials, and providing task-analytic instruction to students with ID when they are participating in general education curricula (Courtrade,, Browder, Spooner, & DiBiase, 2010; Jimenez, Browder, Spooner, & DiBiase, 2012; Shogren et al., 2011). Another avenue considered for exploration is the role technology can play in adapting materials and instruction to meet the needs of students with ID (Lee et al., 2006).

The literature strongly supports the use of technology as an instructional tool for students with ID (Mechling & Hunnicutt, 2011; Mechling & O'Brien, 2010). Findings

suggest that technology can be used as an effective curricular support and instructional tool (Coleman, Hurley, & Cihak, 2012). Much of this research tends to focus on using technology to enhance or increase the functional academic skills of students with ID (Hansen & Morgan, 2008; Mechling & O'Brien, 2010; Ozkan, Oncul, & Kaya, 2013) with little research examining the impact on grade-aligned instruction for this population (Mechling & Hunnicutt, 2011). Though gaining in popularity, instruction incorporating the use of technology, most specifically *iDevice* (i.e., *iPod*, *iPad*) technology, is not widely available to students with ID.

To date, limited research is available on the use of *iDevice* (i.e., *iPod*, *iPad*) technology for the instruction and learning of children with ID. However, preliminary single-case studies are promising. The *iPad* (Apple, 2010), equipped with accessibility features, restriction settings, intuitive interfaces, and interactive content, is being used more frequently in the research with students with disabilities. Determining the efficacy of *iPad* (Apple, 2010) technology as a learning tool may positively impact the academic access and achievement of students with ID (Palmer et al., 2012; O'Malley et al., 2013). Early research is promising concerning the use of technology in general and the specific use of *iPads* (Apple, 2010) with students with ID as a vehicle for enhancing participation in general education curricula.

Access to General Education Curricula

Research concerning the instruction of students with ID historically focused on functional living skills rather than academic instruction (Browder et al., 2008; Browder et al., 2006). However, educators and researchers, working with this population, have begun to explore more meaningful academic skills that have the potential for increasing

academic achievement for these students (Lee et al., 2009; Lee et al., 2010; Soukup et al., 2007). Unfortunately, many students with ID are educated in self-contained classrooms and are not exposed to general education curricula (Peetsma et al., 2007; Wehmeyer et al., 2003).

Dymond and Russell (2004) studied the impact of grade and disability on the inclusion in instruction aligned to general education curricula. The purpose of the study was to evaluate general education instructional contexts for students with mild and severe disabilities. The study was conducted at an inclusion-focused elementary school. Student groupings were established based on grade level (i.e., grades 1-2, grades 3-5) and disability (i.e., mild, severe). Students with disabilities who spent more than 50% of their academic school day in the special education classroom were grouped in the severe category and students with disabilities who spent more than 50% of their day in the general education classroom were grouped in the mild category. Once the groups were established, three students from each group were selected randomly as participants. A total of 12 students (i.e., three students from each of the four groups) participated in the study.

An observational coding system was used to collect data on the following items; (a) activity of target student, (b) activity of peers without disabilities, (c) curricula, (d) instructional format, (e) partner (i.e., paraprofessional, peer), (f) location, and (g) student response. Students were observed on three occasions for 30-minutes. The observer used a time-sampling technique to record observations in one-minute cycles (e.g., one-minute of observation, one-minute of recording data).

Observational data were analyzed using descriptive statistics. Each data collection form was summarized and the frequency count for each descriptor totaled. These data were aggregated by both grade (i.e., grades 1-2, grades 3-5) and disability (i.e., mild, severe) (Dymond & Russell, 2004). The data showed significant differences among disability group in the areas of curriculum, instructional format, and partner. The data indicated that curricular adaptations were present during only 1% of the observations for students with mild disabilities, and during over 50% of the observations for students with severe disabilities (Dymond & Russell, 2004). It is important to note that the assistance of a paraprofessional was counted as a curricular adaptation and students with severe disabilities interacted significantly more (i.e., 79% of the observations) with paraprofessionals than did the students with mild disabilities (Dymond & Russell, 2004). In fact, the students with severe disabilities were rarely included in the general education classroom without adult assistance and either a paraprofessional or special education teacher provided most of the instruction individually for these students.

Dymond and Russell (2004) concluded that curricular modifications were essentially nonexistent for students with mild disabilities though sometimes used with students with more significant disabilities in the form of adult assistance. They suggested that longitudinal research is needed to determine the lasting impact of grade and disability on inclusionary practices. They recommended replication of this study in other inclusion-focused elementary schools in order to generalize the findings.

Employing an observational study, Wehmeyer, Lattin, Lapp-Rincker, and Agran (2003) examined the extent to which students with ID had access to general education curricula. Thirty-three middle school students with ID participated in the study. Much

like the Dymond & Russell (2004) study, these students were categorized into two groups based on the amount of exposure they had to the general education setting. Students who participated in at least one general education class were categorized as having access to the general education classroom and students who participated in classrooms solely for students with disabilities were classified as not having access to the general education classroom.

The students were observed in the classrooms they regularly attended and the observations were coded by both subject (i.e., language arts, functional academics, life skill instruction, social studies/ history, math, science/ health, computer/typing, speech, art/music) and environment (i.e., special education, general education). Each student was observed for a 15-minute period, for a minimum of eight occasions. Access to general education curricula was examined using an observational coding sheet that recorded the following situations: (a) all students working on a task aligned to district standards, (c) a target student working on a task aligned to the IEP, (d) accommodations being provided to the target student working on a task aligned to district standards, (e) a target student working on a task that augments the curriculum. During the 15-minute observations, the students were observed for 20 seconds and data recorded for 10 seconds. This process was repeated so that each 15-minute observation cycle included 30 observation intervals.

Analysis of the data included calculating the number of observation intervals and conducting an analysis of variance (ANOVA) on student access to general or special education environments. The data indicated that students who received instruction in the
general education classroom were engaged in tasks aligned to general education curricula during 90% of the observational intervals. The students who were observed in special education classrooms engaged in tasks related to general education curricula during only 50% of the observational intervals (Wehmeyer et al., 2003). Overall, students who participated in inclusive settings (e.g., general education) engaged in tasks aligned to general education curricula for 40% more of the observational intervals than students in self-contained settings. Additionally, the findings indicated that during only 2.78% of the observational intervals were the students with ID provided some type of curricular adaptation (Wehmeyer et al., 2003).

Wehmeyer et al. (2003) maintained that the results of this study indicated that students with ID, who have access to the general education classroom, are more likely to receive instruction aligned to the general education curricula. They concluded that the findings suggest that general education curricula should be expanded to include a variety of instructional methods in order for students with ID to demonstrate knowledge. Recommendations for further research included the creation of instructional methods and strategies to provide students with ID access to general education curricula within the special education setting, suggesting that access could occur outside of the general education classroom.

In a follow-up observational study, Soukup, Wehmeyer, Bashinski, and Bovaird (2007) conducted a study to ascertain the impact of various classroom variables (i.e., supplementary aids and services, curricular modifications, education and assistive technology, adult and peer support) on the general education curricular access of students with ID. The purpose of the study was to expand the findings of Wehemeyer et al. (2003)

by measuring specific variables related to curricular access. Nineteen elementary students participated in the study and seventeen were classified as having ID. Each participant's teacher was interviewed and information collected on the student's needed level of support and the percentage of time they spent in the general education environment (Soukup et al., 2007). Based on this information, students were: (a) assigned a support score ranging from 1 (no support needed) to 5 (full physical support needed), and (b) assigned to a group based on the time they spent in the general education environment, ranging from high inclusion (75 - 100% of time spent in general education) to low inclusion (0 - 50% of time spent in general education).

The students were observed during science or social studies lessons and a total of three 20-minute observations were conducted. A computer-based time sampling data collection program (Access CISSAR) was used to collect data on the variables previously examined by Wehmeyer et al. (2003). The variables studied included: (a) engagement in a task aligned to a general education standard, (b) engagement in a task aligned to a grade level standard, (c) engagement of peers on a task aligned to a general education standard, d) engagement of peers on a task aligned to a grade level standard, (e) engagement on a task aligned to an IEP goal, (f) provision of accommodations, (g) provision of curricular adaptations, (h) provision of curricular augmentations, and (i) environment (i.e., special education, general education).

Data were analyzed using a general linear mixed model and fixed and random effects obtained (Soukup et al., 2007). The results indicated that students who spent 50 – 100% of their instructional time in the general education environment worked on tasks aligned to grade level standards (during 60% of observations). Conversely, students who

spent less than 50% of their instructional time in the general education classroom were never observed working on tasks aligned to a grade level standard. The students who participated more in the general education environment were provided more accommodations than participants who had minimal participation in the general education environment. Additionally, students who spent most of their instructional time outside of the general education classroom were more likely to be working on tasks aligned to IEP goals (during 58% of observations), while participants who spent most of the their instructional time in the general education environment were less likely to be working on tasks aligned to IEP goals (during 10% of observations) (Soukup et al., 2007).

Soukup et al., (2007) concluded that students who receive a majority of instruction outside of the general education environment experience instruction and IEP goals that do not align to general education standards. They also maintained that their findings were similar to the findings of Wehmeyer et al. (2003) in that students with ID are less likely to have access to general education curricula if their instruction takes place in the special education or self-contained setting. They recommended three practices for improving access to general education curricula: (a) students with ID should be educated alongside their peers without disabilities, (b) students with ID should be included in the same seating pattern as their peers without disabilities, and (c) one-on-one instruction should be provided when working with students with ID. They also suggested further investigation of various accommodations (e.g., assistive and instructional technology) to examine potential learning supports for students with ID.

Lee, Soukup, Little, and Wehmeyer (2009) designed a study to identify and explore instructional and ecological variables impacting general education curricular access for students with ID. The purpose of this study was to evaluate the extent to which the student and teacher variables forecast access to general education curricula. Nineteen elementary students, seventeen of which were classified as having ID, participated in the study. Prior to the study, each participant's level of support needs were determined by their teachers using the *Supports Intensity Scale* (SIS) (Thompson, Bryant, Campbell, Craig, Hughes, Rotholz, et al., 2004) and all students were categorized as having moderate to heavy support needs (Lee et al., 2009).

The identified students were observed on three 20-minute intervals during science or social studies instruction. Of the observations conducted, 65.7% were during instruction in the general education environment, 28.7% were conducted during instruction in special education settings, and 5.6% of occured in areas outside of the classroom (e.g., library, hall) (Lee et al., 2009). Similar to Soukup et al. (2007), a computer program (MS-CISSAR) designed to collect time-sampled observational data during 60-second intervals was used. Data were collected on: (a) engagement in a task aligned to a general education standard, (b) engagement in a task aligned to a grade level standard, (c) engagement of peers on a task aligned to a general education standard, (d) engagement of peers on a task aligned to a grade level standard, (e) engagement on a task aligned to an IEP goal, (f) provision of accommodations, (g) provision of curricular adaptations, (h) provision of curricular augmentations, and (i) environment (i.e., special education, general education). During the observations, points were assigned for each observed variable (e.g., 1 point if a curriculum modification was observed) and totaled to provide an overall access score.

The data were analyzed using a repeated measures observational design with multilevel modeling and simple regression computed. The findings indicated that teacher focus negatively impacted access to general education curricula. Teachers removed their focus from students with ID during instruction aligned to grade level standards. The data also showed that general education teachers were less likely to focus on students with ID when tasks aligned to their IEP goals were being taught. Additionally, the behaviors of students with ID were observed to be less favorable during tasks that were increasingly difficult and aligned to grade level standards.

Lee et al. (2009) concluded that the manner in which students with ID and their teachers interact are "strong predictors of access" to general education curricula (Lee et al., 2009, p.40) and the interactions are influenced by the classroom environment (i.e., difficulty of task, setting, degree of disability). Lee et al. (2009) suggested that educators must provide supports (i.e., curriculum adaptations, modifications, augmentation) to more successfully engage students with ID in complex academic tasks. They recommended further research to determine the types of curricular modifications and interventions to best support the needs of students with ID when they participate in general education curricular activities.

Lee, Wehmeyer, Soukup, and Palmer (2010) conducted a study to replicate their previous research and extend knowledge on the impact of curricular modifications on the academic progress of students with disabilities. Forty-five high school students, who received both special education services and core content instruction within the general

education environment, participated in this study. In a replication of the Soukup et al. (2007) study, the teachers were asked to determine each student's level of support using a likert-type scale prior to the study. The students were observed during one of their core content classes within the general education classroom (i.e., science, math, English, social studies).

Once again, a computer-based time sampling data collection program (Access CISSAR) was used. Data were collected on variables previously explored by Wehmeyer et al. (2003), Soukup et al. (2007), and Lee et al. (2009) with specific attention paid to the presence of curricular modifications (e.g., adjusted readability of text, modification of content, use of technology). Each student was observed for a total of 30-minutes. Data, examining the role of curricular modification on the student progress within general education curricula, were analyzed using a multilevel regression. Data evaluating student behavior as a function of the availability of curricular modifications were analyzed using both descriptive statistics and an ANOVA (Lee et al., 2010). The findings indicated significant differences between the participants who were provided curricular modifications had a positive effect on the academic engagement of the students, as they were more likely to respond academically and be engaged in tasks linked to content standards and less likely to require behavioral re-direction (Lee et al., 2010).

Lee et al. (2010) concluded that the results of this study indicated the importance of providing curricular modifications to support the academic progress of students with disabilities in general education curricula. They maintained that curricular modifications are effective in enhancing access to general education curricula for students with

disabilities. Lee et al. (2010) recommended that additional teacher and support staff training on appropriate methods to provide curricular modifications to better facilitate access to general education curricula be implemented.

Students with ID require curricular modifications in order to progress within general education curricula (Dymond & Russell, Lee et al., 2009, Lee et al., 2010, Soukup et al., 2007, Wehmeyer et al., 2003). Effective academic instruction is paramount to the success of this population and there is an increasing need to provide supports (i.e., curriculum adaptations, modifications, augmentation) to more successfully engage students with ID in more complex academic tasks (Lee et al., 2009, Soukup et al. 2007). Unfortunately, curricular modifications, most specifically adaptations to academic content, are rarely present despite the fact that they are considered a best practice (Dymond & Russell, 2004, Lee et al., 2009, Wehmeyer et al., 2003). Though current focus is on including students with ID in the general education setting to increase access to general education curricula, Wehmeyer et al. (2003) argue that a student with ID could have access to general education curricula while participating in a special education setting if the curriculum was appropriately adapted. Further investigation is needed to determine the types of curricular modifications and instructional interventions (e.g., technology) that will best support the needs of students with ID when they participate in general education curricula (Lee et al., 2010, Wehmeyer et al., 2003).

Providing Curricular Modifications to General Education Curricula

The literature is replete with evidence that students with ID are often excluded from access to general education curricula (Dymond & Russell, 2004; Soukup et al., 2007). As a result, educators are asking for curricular adaptations to facilitate greater

academic access for these students (Lee et al., 2009; Lee et al., 2010; Soukup et al., 2007). Unfortunately, applications of curricular adaptations to general education curricula are infrequent and inconsistently applied for students with ID (Lee et al., 2009; Lee et al., 2010). However, recent research supports a variety of strategies that can be effective in increasing participation in general education curricula for this population (Lee et al., 2010).

In a study designed to investigate the effects of an empirically evaluated instructional model on the academic learning of students with ID in the middle school setting, Agran, Cavin, Wehmeyer, and Palmer (2006) used the *Self-Determined Learning Model of Instruction* (SDLMI). The goal of the study was to evaluate the use of SDLMI on academic skill performance aligned to general education curricula. Three middle school students with ID participated in the study. Participating students were receiving some content instruction in a general education classroom.

Each student, with help from their special education teacher or special education assistant, identified both a curricular area and a student-directed strategy. Curricular areas were aligned to the general education content standards of the student's grade level. The curricular areas chosen were: (a) practicing scientific inquiry, (b) understanding different types of maps, and (c) learning about the organ systems of the body. The selected student-directed strategies included: (a) self-instruction, (b) self-monitoring, and (c) goal setting. Instruction for each student was designed to embed the student's selected learning strategy. One special education teacher and two special education assistants were trained to collect data. Data were collected two to four times per week. The types of data collected were: (a) frequency of correct responses, and (b) percent of correct responses to

content test questions. Though data differed across participants, all data were converted into percentages for comparison (Agran et al., 2006).

A multiple baseline across subjects design was used to examine the effects of the intervention and included baseline, intervention, and maintenance phases. During baseline, all participants were observed in the general education environment and data were collected on the target behavior prior to receiving instruction. Additionally, the student-directed learning strategies were explained and participants selected a strategy to use. After baseline, the intervention phase of the study was initiated. The SDLMI, a problem-solving model, teaches students to self-regulate, set goals, develop action plans, and self-evaluate performance was used as the intervention for this study. The students received structured training on their selected student-directed strategy. Training included modeling and demonstration of examples and non-examples by the trainer, student performance of the strategy with trainer cues, and independent student performance. During the training phase, the students were observed in the general education classroom and once criteria of 80% correct responding were reached, the participants moved into the maintenance condition (Agran et al., 2006). Maintenance data were collected one to two times per week for two to three months.

The data were analyzed by converting the number of correct responses into a percentage for comparison across phases. It was reported that all students established stable patterns during baseline, increased their performance using the student-directed strategy during the intervention, and maintained the behaviors at acceptable levels during the maintenance phase. During the intervention, Student A's performance mean was 67%, Student B's performance mean was 87%, and Student C's performance mean was

53%. Throughout the maintenance phase, Student A increased performance with a mean of 85%, Student B increased performance with a mean of 99%, and Student C increased performance with a mean of 80% (Agran et al., 2006).

Agran et al. (2006) maintained that the results indicate that the participants were able to learn, maintain, and increase performance in content material aligned to general education curricula using a student-directed strategy. They concluded that students with intellectual disabilities can obtain academic skills aligned to general education standards when those curricula are augmented with strategies that promote self-monitoring, selfinstruction, and goal setting. They recommended further investigation into strategies and instructional techniques to facilitate the learning of general education curricula by students with intellectual disabilities.

In a follow-up study designed to examine the relationship of using the *Self-Determined Learning Model of Instruction* (SDLMI) on access to general education curricula, Shogren, Palmer, Wehmeyer, Williams-Diehm, and Little (2012), replicated and extended the work of Agran and colleagues (2006). The purpose of the study was to expand the research on the effects of SDLMI implementation on academic goal attainment. The participants included 312 high school students with learning and intellectual disabilities. Students were divided into two groups (i.e., treatment, control) with the treatment group receiving the intervention (i.e., implementation of the SDLMI).

The teachers participating in the treatment group received training on the implementation of the SDLMI prior to baseline. During baseline, all students were observed during instruction and an access score was calculated. The intervention, consisting of the implementation of the SDLMI, lasted for the remainder of the school

year for the treatment group (Shogren et al., 2011). At the end of the intervention phase, access scores were recalculated for students in both groups (i.e., treatment, control).

Once again, a computer-based data collection system (Access CISSAR) was used. Data were collected through observations during instruction. Each student was observed twice (i.e., during baseline, at the end of the intervention phase), for a total of 60-minutes. The data (i.e., student access scores during baseline and intervention) were analyzed using multilevel model and fixed and random estimates obtained. The findings, when compared across groups (i.e. treatment, control), indicated that student access scores increased when the SDLMI was used to augment instruction. The implementation of the SDLMI had a positive effect on access to general education curricula for students with ID (Shogren et al., 2011).

Shogren et al. (2011) concluded that the results of the study indicated that students with ID increased their access to general education curricula when the SDLMI was implemented to augment the curricula. They maintained that the SDLMI was effective in supporting the needs of students with ID when they were engaging in general education learning. Shogren et al. (2011) recommended that future research explore strategies for supporting students with ID within the general education classroom.

Using a multiple probe across participants design, Browder, Trela, and Jimenez (2007) evaluated the effects of using a task-analytic teaching method with adapted gradelevel materials on the academic responding of students with ID. The purpose of the study was to use this instructional strategy and measure the effects on the acquisition of literacy skills for students with ID. The participants were: (a) three middle school teachers of students with ID, and (b) six middle school students with ID who were unable to read

(Browder et al., 2007). The study took place during reading instruction within the selfcontained setting and included pre-baseline, baseline, and intervention phases.

The pre-baseline phase consisted of observations to determine the level of literacy instruction taking place prior to training. Following the pre-baseline phase, the teachers received training and adapted novels (i.e., picture-supported summaries of grade level literature) to use with their students with ID. During the intervention phase, task analyses were provided to the teachers to use as lesson plan templates as they began teaching with the adapted materials.

The data were analyzed by: (a) recording the number of steps on the task analysis that the teachers completed across conditions (i.e., baseline, intervention), and (b) recording the number of independent and accurate student responses during the literacy lessons. These data were graphed and visual inspection used to interpret the results. The results indicated that: (a) the teachers followed the task-analytic lessons with increasing fidelity, and (b) the students increased the number of academic responses when the taskanalytic instruction and adapted materials were used.

Browder et al. (2007) concluded that the task-analytic instructional method was an effective lesson delivery format for students with ID. They maintained that this instruction paired with appropriately adapted lesson materials positively affected both the academic responding and participation in grade level literature for students with ID. Browder et al. (2007) recommended that future research using this instructional method be conducted in other academic areas (e.g., science, social studies, math). They also suggested that this methodology be expanded to include examination of the effect on the reading comprehension skills of students with ID.

Courtrade, Browder, Spooner, and DiBiase (2010) designed a study to explore the use of a task-analytic instructional approach to teach scientific inquiry to students with ID. The purpose of the study was to examine the effects of task-analytic instruction on the acquisition of scientific inquiry skills for students with ID. Participants included: (a) four middle school teachers of students with ID, and (b) eight middle school students with ID. The study took place in self-contained classrooms and included a pre-baseline, baseline, and intervention phases.

During pre-baseline, the teachers participated in a one-day training that included an overview of middle school science curriculum. Following the pre-baseline, the baseline phase consisted of observing teachers and students a total of three times during science instruction of lessons that were created by the teachers without any feedback regarding the intervention (i.e., task analysis of lesson components). During the intervention phase, the teachers were provided an instructional that included a fidelity checklist (i.e., task analysis) and training manual of lesson components, a videotaped model of an inclusive science lesson, and an opportunity, during training, to develop and receive feedback on a science lesson (Courtrade et al., 2010).

The data were analyzed for both teachers and students by calculating the total number of accurately completed steps on the task analysis (i.e., number of lesson components correctly implemented by teachers, number of inquiry skills independently completed by students). These data were compared across baseline and intervention conditions. The results indicated that the use of the task-analytic instructional method had a positive effect on teacher lesson delivery, as more lesson components were included when task-analytic methods were used. Additionally, students with ID increased the

number of inquiry skills independently completed when task-analytic instruction was applied.

Courtrade et al. (2010) concluded that training teachers to employ task-analytic instruction increased meaningful student participation in science lessons. They maintained that the results showed a positive functional relationship between training teachers to use task-analytic instruction and student participation in science instruction (i.e., aligned to general education curricula). Courtrade et al. (2010) recommended that future research be conducted to measure the effects on both the acquisition of academic concepts and the generalization of skills of students with ID.

Employing a single subject multiple probe design, Jimenez, Browder, Spooner, and DiBiase (2012) examined the effects of peer-mediated instruction on the scientific responding of students with ID. The purpose of this study was to explore peer-mediated instruction as a possible option for including students with ID in general education science instruction. The participants were: (a) six middle school general education students, and (b) five middle school students with ID. The study was conducted during science instruction in the general education setting and included a baseline phase, an intervention phase, and maintenance probes.

The baseline phase consisted of probing students with ID on concepts from the upcoming science units as well as providing training to the general education students who served as peer instructors. During the intervention phase, instruction began on the science units and the general education students (peer instructors), implemented a time-delay procedure (i.e., gradually increasing wait time between responses) for the science vocabulary and concept statements related to the unit lessons. Once the students with ID

showed mastery (i.e., correctly responding to two of the eight probes) of the unit concepts, maintenance probes were conducted. The maintenance probes allowed students with ID an opportunity to continue to demonstrate mastery of the previously learned material.

The data were analyzed by calculating the total number of accurate responses during the science lessons and compared across baseline and intervention conditions. The findings indicated that the use of peer-mediated instruction had a positive effect on the academic responding of students with ID participating in science lessons within the general education setting. All of the students with ID increased their number of independent and accurate responses. Additionally, students without disabilities reported that they enjoyed the intervention and would like to serve as a peer instructor with other students with disabilities.

Jimenez, Browder, Spooner, and DiBiase (2012) concluded that the use of peermediated instruction positively influenced both knowledge acquisition of scientific vocabulary and concepts, and access to general education curricula. They maintained that implementing peer-mediated in the general education setting was effective in increasing participation of the students with ID. Jimenez, Browder, Spooner, and DiBiase (2012) recommended replication of this study in other academic subjects (e.g., math, social studies).

Though many students with ID are not exposed to the general education curricula, evidence suggests that inclusion is possible with the appropriate instructional strategies and curricular modifications (Lee et al., 2010). Augmentation of the curricula by increasing self-determination skills as well as providing both task-analytic or peer-

mediated instruction have proved successful in facilitating access to general education curricula (Agran et al., 2006; Courtrade et al., 2010; Jimenez et al., 2012; Shogren et al., 2011). Researchers continue to maintain that adapting materials and curricula to meet the unique learning needs of students with ID is best practice (Browder et al., 2007). Recently, research on curricular adaptation for students with ID has begun to focus on the promising role technology can play in promoting access to universally designed materials (Lee et al., 2006).

Technology Use to Provide Access to General Education Curricula

The exploration of technology as a tool to enhance the instruction of students with ID is gaining popularity in the literature (Mechling & O'Brien, 2010; Ozkan, Oncul & Kaya, 2013). Research concerning the use of computers to enhance instruction has shown favorable results for students with ID (Hansen & Morgan, 2008). Incorporating technology, more specifically computers, in the instruction of students with ID has increased engagement, skill capacity, and functional academic achievement (Coleman, Hurley, & Cihak, 2012; Hansen & Morgan, 2008; Ozkan, Oncul, & Kaya, 2013). The use of technology to enhance grade-aligned academic achievement, though limited, is also promising (Mechling & Hunnicutt, 2011)

Hansen and Morgan (2008) designed a study to evaluate the effects of computerbased instruction on the acquisition of grocery shopping skills. The purpose of the study was to determine if computer-based instruction was an effective means for teaching purchasing skills to students with ID. The participants were three high school students with ID who scored low (0-40%) on a pre-test to assess purchasing skills. The study occurred in a high school computer lab with weekly probes taking place at a local grocery

store. A multiple baseline across participants design inclusive of a baseline phase, a treatment phase, a generalization phase, and a maintenance phase was used (Hansen & Morgan, 2008).

A five-step purchasing task analysis was developed that included: (a) checkout stand selection, (b) placing items on the conveyor belt at the checkout stand, (c) correctly purchasing items, (d) requesting a paper or plastic bag, and (e) collecting change, receipt, and groceries. This task analysis was used in both computer-based assessments and weekly grocery store probes. Each step was counted as 20% of the overall score and student scores were graphed for visual analysis during all phases of the study (Hansen & Morgan, 2008). The baseline phase consisted of grocery store probes during which no feedback was provided to the students. Next, the intervention (i.e., computer-based instruction) was introduced and data collected on both computer-based assessment and weekly grocery store probes. During the generalization phase, grocery store probes were conducted at unfamiliar grocery stores in the area. The maintenance probe was conducted for each student 30-days after the intervention concluded (Hansen & Morgan, 2008).

Data were collected on both computer-based assessments and weekly grocery store probes using the 5-step task analysis. The results indicated that the use of computerbased instruction had a positive effect on the acquisition of grocery purchasing skills for the students with ID as all students significantly increased the number of correct steps from baseline to intervention. The students also were able to generalize the purchasing skills to other grocery stores and maintained those skills during the 30-day probe. The students and their parents rated their purchasing skills prior to and at the conclusion of

the study. Both the students and parents rated student purchasing skills higher at the conclusion of the study (Hansen & Morgan, 2008).

Hansen and Morgan (2008) concluded that the use of computer-based instruction was effective at teaching purchasing skills to students with ID. In addition, the intervention was helpful in enhancing the generalization of purchasing skills across a variety of grocery stores. They maintained that the use of computer-based instruction could be an effective tool for teaching community skills to students with ID. Hansen and Morgan (2008) recommended future research to examine the effects of computer-based instruction on other purchasing skills (i.e., purchasing different quantities of items, purchasing items of different values).

Mechling and O'Brien (2010) designed a study to evaluate the effects of computer-based video instruction on the acquisition of public bus transportation skills for students with ID. The purpose of the study was to determine whether computer-based video instruction was an effective means for teaching transportation skills. The participants were three young adults (i.e., ages 19-20 years) with ID who attended a transition-focused program. The study was conducted in a classroom, with generalization probes occurring on a bus route within the community. A multiple probe across participants design was used (Mechling & O'Brien, 2010).

Prior to the intervention, each student's ability to correctly request a stop on a bus route was evaluated. The students were directed to take the bus to a specified location, but received no additional feedback. Next, landmarks (i.e., signs, business locations) were identified as cues for requesting a stop and computer-based video modeling introduced to teach the students when to request a bus stop using the landmarks as cues.

The computer-based video modeling instruction landmarks mirrored the community bus route landmarks used during generalization probes. Two to three computer-based video instruction sessions occurred and were followed by generalization probes on a bus route within the community (Mechling & O'Brien, 2010). This cycle (i.e., computer-based video modeling sessions followed by a probe on a community bus route) was repeated several times with each participant.

Data were collected on the percentage of correct responses during computer-based video modeling sessions and generalization probes within the community. These data were graphed and inspected visually. The results indicated that computer-based video modeling sessions had a positive effect on the acquisition of public bus transportation skills of the students with ID. The students were able to generalize these skills to actual bus routes within the community and maintain the skills after the conclusion of the computer-based video modeling sessions (Mechling & O'Brien, 2010).

Mechling and O'Brien (2010) concluded that computer-based video modeling was an effective tool for teaching students with ID public bus transportation skills. They maintained that this instructional method also was an efficient means of providing the instruction in lieu of actual community instruction, which they argued could be expensive and time consuming. Mechling and O'Brien (2010) recommended that future research evaluate more complex public bus transportation tasks (i.e., multiple locations, transferring routes, handling unexpected events) and explore more innovative technologies (e.g., portable technological devices) that could be used to provide cues in real time.

Mechling and Hunnicutt (2011) designed a study to evaluate the effects of computer-based video self-modeling on the receptive understanding of prepositions of students with ID. The purpose of the study was to determine whether computer-based video self-modeling was an effective means for teaching prepositions to students with ID. The participants were three elementary students with ID. The study took place in a selfcontained classroom for students with ID. A multiple probe across participant design was used that included computer-based video self-modeling sessions and generalizations probes (i.e., positioning of objects, positioning of self) (Mechling & Hunnicutt, 2011).

The experimental condition began with probes to evaluate the students' knowledge of prepositions by placing objects according to the targeted preposition (e.g., object placed under the table, object placed next to the student). Following object placement sessions, probes sessions were conducted in which the student was instructed to position him or herself according to the targeted preposition (e.g., student sits under the table, student sits next to the teacher). The object and self placement probes were followed by computer-based video self-modeling instruction during which the students viewed videos of themselves correctly placing themselves or objects according to the targeted preposition pairs (i.e., in front of/ behind, in/next to, on/under).

Data were collected on the percentage of correct responses across the three pairs of prepositions and graphed across experimental conditions (i.e. object placement, self placement, computer-based video self-modeling). These data were inspected visually. The results indicated that computer-based video self-modeling had a positive effect on the receptive understanding of prepositions by the students. The students increased their

ability to correctly place themselves or objects according to the targeted preposition after the computer-based video self-modeling sessions (Mechling & Hunnicutt, 2011).

Mechling and Hunnicutt (2011) concluded that computer-based video selfmodeling was an effective tool for teaching prepositions to students with ID. They maintained that instruction using computer-based video self-modeling could be used to teach a variety of language-based skills to students with ID. Mechling and Hunnicutt (2011) recommended that future research evaluate the expressive understanding of prepositions and other language-based concepts for this population.

Coleman, Hurley, and Cihak (2012) designed a study to compare the effects of teacher-directed and computer-assisted instruction on the acquisition of functional sight words by students with ID. The purpose of the study was to determine the most effective and efficient method for teaching functional sight words to students with ID. The participants were three elementary students. The study took place in a self-contained classroom for students with ID and an alternating treatment design inclusive of two instructional conditions (i.e., teacher-directed, computer-assisted) was used (Coleman, Hurley & Cihak, 2012).

During baseline, all students were assessed on their recognition of 40 functional words (i.e., words found in recipes) and eleven unknown words were selected for use during the intervention. The intervention phase consisted of alternating treatments (i.e., teacher-directed instruction, computer-assisted instruction). During the intervention phase, the students participated in alternating phases of teacher-directed instruction of the unknown words (i.e., flashcards) and computer-assisted instruction of the unknown words (i.e., *Powerpoint*). Following the intervention, instruction on the unknown words

continued in the preferred instructional condition (i.e., the instructional condition in which 90% criterion was reached in the fewest number of trials) until 90% accuracy of word reading was established across three sessions. Next, the picture cues on the flashcards and *Powerpoint* were removed and the condition resumed until 90% accuracy was reached across three sessions. The generalization probes were conducted in which students read the words and performed a task associated with the words (e.g., making a snack) while the number of words used correctly were recorded using a task analysis.

Data were collected on the number of functional words read correctly and results calculated for each student across sessions and conditions. These data were visually inspected. The results indicated that both teacher-directed and computer-assisted instructions were effective at teaching functional words to students with ID. However, the teacher-directed condition seemed more efficient as the number of trials to reach criterion was less than the computer-assisted condition. The students increased their ability to correctly read functional sight words across conditions (i.e., teacher-directed instruction, computer-assisted instruction) (Coleman, Hurley, & Cihak, 2012).

Coleman, Hurley, and Cihak (2012) concluded that both teacher-directed and computer-assisted instruction could be used to teach functional words to students with ID. They maintained that instruction, involving technology, might be effective in teaching a variety of skills to students with ID. They recommended that future research focus on the use of computer-assisted instruction to teach other functional academic tasks (i.e., money skills, community survival words) to students with ID.

Ozkan, Oncul, and Kaya (2013) designed a study to evaluate the effects of computer-based instruction on teaching students with ID what emergency service to call

in an emergency situation. The purpose of the study was to determine if computer-based instruction would be effective in teaching students with ID what emergency service to call in a given situation and recalling the corresponding telephone number for the appropriate service. The participants were five elementary and middle school students with ID. The study took place in self-contained classrooms for students with ID. A multiple probe design inclusive of baseline probes, intervention, and maintenance probes was used (Ozkan, Oncul, & Kaya, 2013).

During the initial probes (3 sessions), the students were presented with a scenario (e.g., who do you call if you fall off your bike and break your leg) and were asked to identify the correct emergency service (e.g., ambulance). Following these probes, intervention began and consisted of the introduction of a computer program that presented an emergency scenario and asked the students to identify the appropriate emergency service (e.g., police, fire, medical). Maintenance probes were conducted at four, eight, and twelve weeks after the intervention and mirrored the initial probes (Ozkan, Oncul, & Kaya, 2013).

Data were collected on the percentage of correct responses for each student and graphed across conditions. These data were visually inspected. The results indicated that computer-based instruction was effective at teaching the appropriate emergency service and corresponding phone number to the students with ID. The data also indicated that the students maintained these skills at four, eight, and twelve weeks, suggesting that students with ID could discern which emergency service to call for a specific situation (Ozkan, Oncul, & Kaya, 2013).

Ozkan, Oncul, and Kaya (2013) concluded that computer-based instruction was effective at teaching the appropriate emergency service to contact in a specific emergency situation to students with ID. They maintained that computer-based instruction could favorably contribute to enhancing the safety and quality of life of these students. Ozkan, Oncul, and Kaya (2012) recommended that future research focus on the use of computerbased instruction to teach other functional daily living skills to this population.

Current research supports the use of computer-based instruction as an effective instructional method (Coleman, Hurley, & Cihak, 2012; Ozkan, Oncul & Kay, 2012). Though limited, the research concerning the impact of computer technology on the academic learning of children with ID is promising (Mechling & Hunnicutt, 2011), but further research is needed. With much of the research focusing on functional or daily living skills, more research is needed to examine the implications of technology on gradealigned academic skills.

iDevice Technology to Provide Access to General Education Curricula

Technology, considered a curricular adaptation, is gaining popularity in educational settings (Edyburn, 2013). Current *iDevice* (i.e., *iPad*, *iPod*) research shows positive implications for instructional use with students with disabilities, including students with ID (Cumming & Strnadova, 2012). Research on the impact of *iPad* (Apple, 2010) technology is limited, but encouraging (O'Malley et al., 2013). The *iPad* (Apple, 2010) may have the capacity to support learning for students with ID of its accessibility and interface features are: (a) more intuitive (i.e., interactive, guided access), (b) easy to use (i.e., touch screen), (c) customizable to support individual student needs (e.g., display

settings, restrictions, accessibility features), and (d) engaging (Burton et al., 2013; Hart & Whalon, 2012: O'Malley et al., 2013).

Hammond, Whatley, Ayres, and Gast (2010) conducted a study designed to measure the effects of video modeling on a student with ID learning to use an *iPod* (Apple, 2007). The purpose of this study was to use a video modeling strategy to teach students with ID how to independently use an *iPod* (Apple, 2007) to search for music, photos, and videos. Three middle school students with ID, who received their education in self-contained classrooms and had a history of using visual schedules, participated in the study. The study took place within a self-contained classroom during independent work time. Task analyses were developed on how to access: (a) music, (b) videos, and (c) photos. Tasks were video taped and the students viewed the videos during intervention sessions. Sessions were conducted four times a week for 15-minutes (Hammond et al., 2010).

A multiple probe design including initial probe trials, video modeling sessions, and maintenance probe trials were conducted. Data were collected during the initial probe trial on each student's ability to select the required stimuli (i.e., videos, photos, music) to ascertain if the participant could navigate the *iPod* (Apple, 2007). Once it was determined that the students were able to navigate the *iPod* (Apple, 2007), video modeling sessions began. Participants were shown video clips modeling *iPod* (Apple, 2007) navigation to movies, music, or photos and probes immediately followed to address recall of the steps in the task analyses. Once a student could successfully navigate the steps in the task analysis, maintenance probes were conducted to determine if they had maintained the *iPod* (Apple, 2007) navigation skills (Hammond et al., 2010).

Data were calculated by recording the number of correct (i.e., student initiated) steps in the task analysis. A percentage of completed steps was calculated by dividing the number of correct steps by the total number of steps in the task analysis and multiplying by 100. In addition, social validity data were collected upon the conclusion of the study using surveys completed by adults familiar with the participants. These adults reported that the students demonstrated an increasing ability to independently navigate an *iPod* (Apple, 2007).

Hammond et al., (2010) maintained that the results of this study indicated that students with ID can learn to navigate *iPods* (Apple, 2007). They also concluded that the *iPods* (Apple, 2007) engaged the students as they all expressed "pride in their learning and excitement at the prospect of having and using a piece of technology their same-age peers in regular education often used" (Hammond et al., 2010, p. 536). They recommended that future research be focused on: (a) the generalization of technological skills to new or upgraded technology (e.g., next generation *iPod*, *iPad*), and (b) modifying settings of the *iPod* (Apple, 2007) to further control task selection.

In a follow-up study, Kagohara, Sigafoos, Achmadi, van der Meer, O'Reilly, and Lancioni (2011) evaluated the effects of video modeling (VM) on the capacity of students with ID capacity to independently use the *iPod* (Apple, 2007). The purpose of the study was to use the video modeling strategy to teach the students to independently use an *iPod* (Apple, 2007) to search for and listen to music. Three high school students with ID, who received their education in special education schools for students with disabilities, participated in the study. The study took place within the self-contained classroom. An 8step task analysis was developed that included the steps needed to access and listen to

music on the *iPod* (Apple, 2007). Tasks were video taped and loaded onto the *iPod* (Apple, 2007).

A delayed multiple probe design including baseline, intervention (i.e., video modeling), fading, and follow-up phases was used. During the baseline phases, the participants were given the *iPod* (Apple, 2007) and instructed to turn it on and listen to music. No prompting was provided and the number of steps in the task analysis completed accurately and independently were recorded (Kagohara et al., 2011). During the intervention (i.e., video modeling) phase, the students watched a video illustrating the steps to access and listen to music on the *iPod* (Apple, 2007). They were then given the *iPod* (Apple, 2007) and instructed to access and listen to music. Each student was given 10-seconds to complete each step and steps completed accurately and independently were recorded. The fading phase followed in which the video was not shown to the students. Similar to the intervention phase, the students were then given the *iPod* (Apple, 2007) and instructed to access and listen to music and had 10-seconds to complete each step. The data collected was accuracy and independence in completing the steps. During the follow-up sessions (i.e., 4 and 9 weeks after intervention), the students were given the *iPod* (Apple, 2007) and instructed to turn it on and listen to music. No prompting was provided and the number of steps in the task analysis that were completed accurately and independently were recorded (Kagohara et al., 2011).

The results were calculated by recording the number of accurate and independently performed steps in the task analysis. A percentage of completed steps were calculated by dividing the number of correct steps by the total number of steps in the task analysis and multiplying by 100. The results indicated that the percentage of steps

completed accurately and independently increased for all participants from baseline to the intervention phases. The skills were maintained, even with the fading of the intervention, and the students were able to successfully and independently access music during the follow-up sessions (Kagohara et al., 2011).

Kagohara et al., (2011) maintained that the results of this study indicated that students with ID have the potential to independently learn new skills with the use of video modeling on *iPods* (Apple, 2007) (Kagohara et al., 2011). They also concluded that the *iPod* (Apple, 2007) provided an avenue for the students to engage in activities similar to their same-age peers and may encourage inclusion by providing individuals with ID opportunities to "share common interests with others" (Kagohara et al., 2011, p. 2991). They suggested that future research be conducted to replicate the intervention (i.e., video-modeling using the *iPod*) with more difficult skills.

Employing a single subject ABAB reversal design, Hart and Whalon (2012) evaluated the effects of video self-modeling (VSM) using an *iPad* (Apple, 2010) on the academic responding of a student with Autism (ASD) and ID. The purpose of the study was to employ a non-stigmatizing technology in an effort to better engage the student in science-focused academic discussions. The participant was a high school student with ASD and ID who spent less than 40% of the academic school day in the general education environment. When the student spent time in the general education or resource setting, he was supported by one-on-one assistance (Hart & Whalon, 2012). The study took place during science instruction within the resource room setting and included a baseline phase, intervention phase, a return to baseline condition, and a second intervention phase.

The initial baseline phase consisted of six sessions, 25-minutes each, over a period of two weeks and measured the student's unprompted academic responses. Following baseline, the first intervention phase consisted of twenty sessions, 25-minutes each, over a period of five weeks. During the intervention phase and prior to teacher-led discussion, the student viewed a short one-minute video of himself answering content questions on the *iPad* (Apple, 2010). A return to baseline condition followed the intervention in which the *iPad* (Apple, 2010) and VSM videos were removed from the instructional condition. The second baseline lasted a total of eight, 25-minute each, sessions over two weeks. A return to intervention phase followed and the *iPad* (Apple, 2010) and VSM videos were used for six additional 25-minute sessions (Hart & Whalon, 2012).

The data were analyzed by collecting frequency counts on the total number of unprompted academic responses across all conditions. The results indicated that the *iPad* (Apple, 2010) paired with the VSM videos had a positive effect on the amount of unprompted academic responses from the student (Hart & Whalon, 2012). When he viewed videos of himself engaging in the target behavior prior to teacher-led discussion, the frequency of accurate academic responses (i.e., response associated to the content objectives) increased. Increases of 4% were observed during the first baseline phase and increased to 6% during the second baseline phase. Increases of 24% were observed during the first intervention phase and increased to 42% during the second intervention phase (Hart & Whalon, 2012).

Hart and Whalon (2012) concluded that the use of the *iPad* (Apple, 2010) and VSM were effective in increasing the frequency of accurate academic responding by the

student with ID and autism. They maintained that pairing evidence-based strategies (i.e., VSM) with innovative technology (i.e., *iPad*) positively affected the academic responding of the students. In addition, the student's teacher completed a social validity checklist that indicated the intervention (i.e., *iPad*) was easily implemented and beneficial to the student (Hart & Whalon, 2012). Hart and Whalon (2012) recommended a replication of this study with students of different ages and in different settings (i.e., general education environments).

Using a multiple-baseline-across-participants design, Burton, Anderson, Prater, and Dyches (2013) examined the effects of VSM using an *iPad* (Apple, 2010) on the academic math skills of students with ASD and ID. The purpose of the study was to determine if a relationship existed between the use VSM on an *iPad* (Apple, 2010) and participant performance of mathematics objectives (i.e., money word problems). The participants were four middle school students (i.e., one with ASD, two with ASD and ID, one with ID) who were taught in a self-contained classroom (Burton et al., 2013). The study took place in the self-contained classroom during math instruction and included baseline, intervention, and post-intervention phases.

Prior to the study, academic math skills (i.e., reading story problems involving money) were assessed and five VSM videos per student were created based on their present skills and anticipated curricular targets related to Common Core State Standards (CCSS). All videos were available for viewing on the *iPad* (Apple, 2010). Task analyses were developed to measure student accuracy. The teachers recorded the number of steps completed correctly and converted that number to a percentage. The teachers also

recorded the number of times the participants accessed the VSM video on the *iPad* (Apple, 2010) to aid in tasks.

During the baseline phase, each student was presented five story problems and told to read and follow directions. No additional instruction or feedback was given and the percentage of accurate steps in the task analysis was calculated for each student. The *iPad* (Apple, 2010), with VSM videos, was introduced during the intervention phase. The students were able to view themselves working through the steps of the word problems and could rewind, pause, or fast-forward as needed while they completed a similar word problem on paper. During the intervention phase, the students completed five word problems and their performance was recorded by calculating a percentage of accurate steps in the task analysis. Post-intervention consisted of six phases in which the VSM videos on the *iPad* (Apple, 2010) were gradually removed until each student was required to solve five word problems without the support of the VSM videos on the *iPad* (Apple, 2013).

The data were analyzed visually with special attention paid to changes in level and trends across phases (Burton et al., 2013). Averages of correct responses were calculated for baseline, intervention, post-intervention, and compared across conditions. The data indicated that the use of VSM videos on the *iPad* (Apple, 2010) resulted in a functional relationship between the dependent variable (percentage of correct responses) and the independent variable (VSM) as evidenced by a systematic change in student performance (Burton et al., 2013).

Burton et al. (2013) maintained that the results of this study indicated that the use of the *iPad* (Apple, 2010) was a means of providing VSM videos to students with ASD

and ID to positively impact students' accuracy and independence during multi-step mathematics tasks. They concluded that this instructional strategy, paired with the innovative technology (i.e., *iPad*), supported both learning and access to general education curricula. They suggested further research replicate this intervention across settings and students of varying ages. Additionally, they recommended future research examine the effects of the *iPad* (Apple, 2010) on academic instruction (i.e., science, reading, writing) (Burton et al., 2013).

O'Malley, Jenkins, Wesley, and Donehower (2013) studied the impact of the *iPad* (Apple, 2010) on the increase in basic math fluency (i.e., simple addition and subtraction) for students with Autism (ASD) and ID. The purpose of the study was to investigate the effects of a math application using an *iPad* (Apple, 2010) on the learning of basic math fluency. Ten middle school students with moderate to severe ID or ASD participated in the study. The study was conducted in a special education school within a self-contained classroom and included two baseline and intervention phases.

The study lasted four weeks used a single-case ABAB design. Prior to the study, pretest data were collected on basic math skills of the students. During the initial baseline phase, the students completed a paper and pencil, timed, simple addition and subtraction test consisting of 20 problems. In the intervention phases, *iPads* (Apple, 2010) with timed, simple addition and subtraction math applications (apps) were used and the participants completed 20 problems. A return to baseline (i.e., timed, paper and pencil assessment) condition was followed by a return to intervention (i.e., *iPad* with math app) condition, and a posttest was completed.

The data were analyzed both visually and statistically. Dependent *t*-tests were used to compare means between phases. Visual inspections of data points were used to determine effect by noting differences in level and trend. The data indicated that: (a) the *iPad* (Apple, 2010) was an effective instructional tool, and (b) the *iPad* (Apple, 2010) and math app had a positive impact on the learning of students with ASD and ID. Pre and posttest data indicated a significant increase in basic math fluency and visual inspection showed an increase in the number of accurately answered problems per minute during the intervention phases.

O'Malley et al. (2013) concluded that the *iPad* (Apple, 2010) could be an effective instructional tool for student with disabilities. Additionally, they asked both teachers and parents about the use of the *iPad* (Apple, 2010) and both groups agreed that the *iPad* (Apple, 2010) was an innovative, effective, and appropriate learning and instructional tool for students with ASD and ID. They suggested that future research examine the integration of *iPad* (Apple, 2010) technology into academic curricula for students with ASD or ID.

Current research, while initial in nature, supports the use of the *iPad* (Apple, 2010) as an instructional tool. Though limited, the research concerning effect of *iPad* (Apple, 2010) technology on the learning of children with ID is promising (Burton et al., 2013; Hart & Whalon, 2012; O'Malley et al., 2013), and given the rapid expansion of *iPad* (Apple, 2010) technology in school districts (Mellhuish & Falloon, 2010; Newton & Dell, 2011), further research is needed. With much of the research focused on the use of the *iPad* (Apple, 2010) as a vehicle for displaying video interventions, other instructional interventions should be explored.

Summary

The literature highlights a need to improve the current practices of supporting access to general education curricula for students with ID. In particular, the research is beginning to focus on technology as a catalyst for change (Lee et al., 2010; O'Malley et al., 2013; Wehmeyer et al., 2003). Educators indicate that students with ID find technology to be engaging (Burton et al., 2013; Hart & Whalon, 2012; O'Malley et al., 2013), however most of the research involving technology has focused on enhancing functional skills rather than the academic skills of students with ID (Hansen & Morgan, 2008; Mechling & O'Brien, 2010; Ozkan, Oncul, & Kaya, 2013). In addition, the majority of technology research for this population focuses on the use of computers (Coleman, Hurley, & Cihak, 2012; Hansen & Morgan, 2008; Mechling & O'Brien, 2010; Ozkan, Oncul, & Kaya, 2013), while limited research exists on the use of more innovative technologies (e.g., *iPod, iPad*) that may have the capacity to better support students with ID (Hammond et al., 2010; O'Malley et al., 2013).

This study was designed to: (a) develop an instructional method that supported access to general education curricula for students with ID, and (b) evaluate the effectiveness of the *iPad* (Apple, 2010) on the academic instruction of students with ID. This study compared academic instruction using traditional teaching methods to academic instruction using *iPads* (Apple, 2010). Data were compared on four measures: (a) student acquisition of content knowledge, (b) student maintenance of content knowledge, (c) student work-completion, (d) teacher perceptions of student engagement,

and (e) consumer (i.e., student) satisfaction to evaluate the effects of the *iPad* (Apple, 2010) on the learning of students with ID.

CHAPTER THREE

METHODOLOGY

Though access to general education curricula is essential to the academic achievement of students with intellectual disabilities (ID) and mandated by federal law (IDEA, 2004; NCLB, 2001; Soukup et al., 2007), an academic instructional focus is rarely observed in self-contained special education classrooms (Browder et al., 2006). Research suggests that both adapted curricula and cognitively accessible technology can support the learning limitations of students with ID (Lee et al., 2010, Palmer et al., 2012). However, research involving students with ID and *iPad* (Apple, 2010) technology is in its initial stages (Kagohara et al., 2013).

This study compared academic instruction using traditional teaching methods to academic instruction using *iPads* (Apple, 2010). The participants were elementary and middle school students with ID. Although both interventions were designed to increase student knowledge, the two interventions were compared on four measures: (a) student acquisition of content knowledge, (b) maintenance of content knowledge, (c) student work-completion, and (d) teacher perceptions of student engagement. Consumer (i.e., student) satisfaction data were collected and analyzed for the *iPad* (Apple, 2010) group only.

Fourteen self-contained classrooms for students with ID were identified and randomly assigned to either the experimental (*iPad*) or control (traditional teaching) group. Seven classrooms used the *Unique Learning System (ULS)* (n2y, 2013) curriculum via traditional teaching methods and seven used the *ULS* (n2y, 2013) curriculum and *iPads* (Apple, 2010). All teachers were trained on the *ULS* (n2y, 2013) curriculum prior
to implementation. Copyright permission to use all materials was obtained (see Appendix A).

Students in both intervention groups received daily instruction using the *ULS* (n2y, 2013) curriculum for 50-minutes, five days a week for a total of four weeks. Data were collected pre and post-intervention using an *ULS* (n2y, 2013) monthly checkpoint assessment related to content knowledge (see Appendix B) and the results compared across instructional groups (i.e., *iPad*, traditional teaching). Maintenance data were collected through re-administration of the *ULS* (n2y, 2013) monthly checkpoint assessment two weeks after instruction ended (see Appendix B). Student work completion data were collected using a checklist (see Appendix C) and compared across instructional groups (i.e., *iPad*, traditional teaching). Teacher perception data concerning student engagement were collected post-intervention using a survey (see Appendix D) and compared across instructional groups (i.e., *iPad*, traditional teaching). Data examining student attitudes and beliefs concerning the use of the *iPad* (Apple, 2010) for learning were collected post-intervention via questionnaire for the *iPad* (Apple, 2010) group only (see Appendix E).

Research Questions

This research study was designed to answer five primary research questions. They are:

Research Question One. Does the content knowledge of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities increase with the use of the *iPad* (Apple, 2010) when compared to traditional teaching methods?

It was predicted that *iPad*-based instruction would result in increased student knowledge of content when compared to traditional teaching methods.

Research Question Two. Is the content knowledge of students (i.e., K-2, 3-

5, 6-8) with intellectual disabilities better maintained with the use of the *iPad*

(Apple, 2010) when compared to traditional teaching methods?

It was predicted that students would demonstrate improved maintenance of content knowledge in the *iPad*-based instructional group when compared to the traditional teaching group.

Research Question Three. Does the work completion of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities differ with the use of digital worksheets on the *iPad* (Apple, 2010) when compared to traditional worksheets?

It was predicted that the use of *iPad*-compatible worksheets would result in increased student work completion when compared to traditional worksheets.

Research Question Four. Do teacher perceptions of student engagement differ with the use of the *iPad* (Apple, 2010) when compared to traditional teaching methods?

It was predicted that teachers would report a higher level of engagement by students participating in instruction with the *iPads* (Apple, 2010) when compared to students in the traditional teaching group.

Research Question Five. For the *iPad* (Apple, 2010) group, what are the student attitudes and beliefs concerning using the *iPad* (Apple, 2010) as a learning tool?

It was predicted that students with intellectual disabilities would report satisfaction with using the *iPad* (Apple, 2010) as a learning tool.

Participants

Students participating in this study attended elementary (ages 5-11) and middle schools (ages 12-14) in a large urban school district located in the Southwestern United States. Prior to participation in the study, parents signed an informed consent form (see Appendix F) and students signed a student assent form (see Appendix G). The consent forms were available in both English and Spanish. The assent form was picture-supported to enhance cognitive accessibility for the students. The students who did not assent or for whom parental consent was not obtained were allowed to participate, but their data was not included in this study.

Students with Intellectual Disabilities

Students who participated in this study were identified by a multidisciplinary team as having an intellectual disability or developmental delay and received services in a self-contained special education classroom for students with this classification. Selfcontained classrooms were targeted for this study, as a majority of students with ID are educated in this environment in the targeted school district. Typically, these classrooms have between five and twelve students. A total of 72 students with ID participated in this study. According to the Nevada Administrative Code, a student is classified as having an intellectual disability if they exhibit a significantly below average intellectual functioning including limitations in at least two of the following areas: (a) communication skills, (b) self-care, (c) home living, (d) use of the community, (e) social skills, (f) self-direction, (g) health and safety, (h) functional academics, (i) leisure, or (j) work (NAC 388.055, 2011). **Students assigned to the** *iPad* **group.** Students enrolled in classrooms assigned to the *iPad* (Apple, 2010) group were taught using the *ULS* (n2y, 2013) curriculum and completed worksheets on the *iPad* (Apple, 2010). They completed a paper version of the pre, post, and maintenance assessments related to content knowledge (see Appendix B). Students in this group also completed a questionnaire related to attitudes and beliefs about using the *iPad* (Apple, 2010) for learning at the completion of this study (see Appendix E). The questionnaire was picture-supported to enhance cognitive accessibility. A total of 41 students with ID participated in the *iPad* (Apple, 2010) group (see Table 1).

Demographics of Students (iPad Group)

Characteristics	Primary K-2	Intermediate 3-5	Secondary 6-8
Gender			
Male	8	10	9
Female	2	3	9
Total	10	13	18
Ethnicity			
Caucasian	3	4	4
African American	1	0	3
Latino	4	7	10
Asian/ Pacific Islander	1	1	1
Other	1	1	0
Total	10	13	18

Students assigned to the traditional teaching group. Students enrolled in classrooms assigned to the traditional teaching group were taught using the *ULS* (n2y, 2013) curriculum via traditional teaching methods and completed worksheets using paper materials. They completed a paper version of the pre, post, and maintenance assessments related to content knowledge (see Appendix B). A total of 31 students with ID participated in the traditional teaching group (see Table 2).

Characteristics	Primary K-2	Intermediate 3-5	Secondary 6-8
Gender			
Male	8	5	2
Female	7	4	5
Total	15	9	7
Ethnicity			
Caucasian	3	3	3
African American	4	1	0
Latino	7	4	2
Asian/ Pacific Islander	1	1	1
Other	0	0	1
Total	15	9	7

Demographics of Students (Traditional Teaching Group)

Teachers

Fourteen licensed special education teachers participated in this study. All teachers signed an informed consent form prior to participation (see Appendix H). The teachers were randomly assigned using the *app, Group Builder* (Paradise Cay Software, 2012), to one of two instructional groups (i.e., *iPad*, traditional teaching).

Teachers assigned to the *iPad* **group.** Teachers assigned to the *iPad* (Apple, 2010) group attended a three-hour training on the *ULS* (n2y, 2013) curriculum. This training included a brief tutorial of the *iPad* (Apple, 2010) device (e.g., features, implementation). At this training, the teachers practiced teaching *ULS* (n2y, 2013) lessons using the *iPad* (Apple, 2010) and received feedback in accordance with the teaching fidelity checklist used in the study (see Appendix I). Teachers assigned to the *iPad* (Apple, 2010) group were responsible for *ULS* (n2y, 2013) lesson implementation using the *iPad* (Apple, 2010). Daily lessons were videotaped to assess instructional fidelity. The teachers were responsible for videotaping these lessons using the provided *iPad* (Apple, 2010) and uploading these videos to a secured *Dropbox* account (i.e., via *Dropbox app*) for assessment. The teachers also administered the assessments (i.e., pre, post, maintenance) and completed a work completion checklist for each student (see Appendices A & C). Teachers in this group completed a post-intervention survey concerning student engagement (see Appendix D) (see Table 3).

Characteristics	Primary K-2 Teachers	Intermediate 3-5 Teachers	Secondary 6-8 Teachers	
Gender				
Male	0	1	0	
Female	2	1	3	
Total	2	2	3	
Education				
Licensed: Special Ed.	2	2	3	
Licensed: ID	1	2	3	

Demographics of Teachers (iPad Group)

Teachers assigned to the traditional teaching group. Teachers assigned to the traditional teaching group attended a three-hour training on the *ULS* (n2y, 2013) curriculum. At this training, the teachers practiced teaching lessons and received feedback in accordance with the teaching fidelity checklist used in the study (see Appendix I). Teachers assigned to the traditional teaching group were responsible for teaching lessons from the *ULS* (n2y, 2013) curriculum using traditional teaching methods

and paper materials. Daily lessons were videotaped to assess instructional fidelity. The teachers were responsible for videotaping these lessons using the provided *iPad* (Apple, 2010) and uploading these videos to a secured *Dropbox* (Dropbox Inc, 2013) account (i.e., via *Dropbox app*) for assessment. The teachers administered the assessments (i.e., pre, post, maintenance) and completed a work completion checklist (see Appendices A & C) for each student. Teachers in this group were required to complete a post-intervention survey concerning student engagement (see Appendix D) (see Table 4).

Characteristics	Primary K-2 Teachers	Intermediate 3-5 Teachers	Secondary 6-8 Teachers
Gender			
Male	0	0	0
Female	3	2	2
Total	3	2	2
Education			
Licensed: Special Ed.	3	2	2
Licensed: ID	2	2	2

Demographics of Teachers (Traditional Teaching Group)

Teacher Fidelity Observer

The teacher fidelity observer scored the recorded daily lessons (downloaded from participating teachers) using the teaching fidelity checklist (see Appendix I). Corrective feedback was provided to individuals whose lesson fidelity fell below 100%. Lessons were scored daily for fidelity.

Interrater Observer of Teacher Fidelity

One assistive technology specialist with technological experience conducted reliability checks for teacher fidelity in this study. The interrater observer of teacher fidelity randomly selected 25% of the videotaped lessons and rescored the teaching fidelity checklist (see Appendix I). The interrater observer of teacher fidelity was trained on the required data collection instruments. The percentage of agreement was calculated using the following formula: [agreements/(agreements + disagreements) x 100 = percentage agreement].

Interrater Scorer

An assistive technology specialist with technological experience conducted the reliability checks for data collected in this study. The interrater scorer randomly selected 25% of the pre, post, and maintenance measures and rescored the assessments. The interrater scorer was trained on all data collection instruments. The percentage of agreement was calculated using the following formula: [agreements/(agreements + disagreements) x 100 = percentage agreement].

Setting

This study was conducted in fourteen self-contained special education classrooms in a large urban school district. Consent for access to this school district had been received prior to implementation (see Appendix J). The schools selected for this study represent the economic, cultural, ethnic, and linguistic diversity of the school district. The self-contained classrooms selected for this study were located on elementary and middle

school campuses. The principal at each school signed a school access consent form (see Appendix K).

Classrooms

The fourteen self-contained special education classrooms participating in this study provided educational services to students with intellectual disabilities and developmental disabilities. The primary focus of instruction in these classrooms was on functional academics (e.g., self-help skills, communication, daily living skills). Students assigned to these classrooms spent more than 80% of their school day in the self-contained classroom setting. Classrooms were selected using convenience sampling (i.e., based on availability and administrative permission). Each of these classrooms had one 50-minute period of daily reading instruction and the study was conducted during this period.

Instrumentation

In an effort to answer the research questions, assessment instruments were used to collect data in the following areas: (a) acquisition of knowledge (i.e., general education content), (b) knowledge maintenance, (c) student work completion, (d) teacher perceptions of student engagement, and (e) student attitudes and beliefs about using the *iPad* (Apple, 2010) for learning. A description of each of the data collection materials is included below.

Pretest, Posttest, and Maintenance Assessments

For this study, pretest, posttest, and maintenance assessments were used to assess content knowledge (see Appendix B). These data were compared across instructional

groups (i.e., *iPad*, traditional teaching). Assessment scores were calculated using the following formula: (number correct/12 X 100 = percent of questions correct).

The assessments used in this study are included in the *Unique Learning System (ULS)* (n2y, 2013) curriculum. All students (regardless of instructional group) took the paper version of the pre, post, and maintenance assessments. The assessments (i.e., pre, post, maintenance) contained questions aligned to instructional targets of the *ULS* (n2y, 2013) lessons and were administered individually. Assessments consisted of six questions that assessed the depth of knowledge relating to the first four cognitive domains of Bloom's taxonomy (i.e., remembering, understanding, applying, analyzing) (Anderson et al., 2000; Pohl, 2000). Two questions assessed recall and recognition (i.e., remembering), two questions assessed interpretation (i.e., understanding), one question assessed transfer of knowledge to new situations (i.e., applying), and one question assessed the break down of information into parts (i.e., analyzing) (n2y, 2013). The questions were read aloud by the teacher and the student selected an answer from a field of three choices.

Student Work Completion Checklist and Data-Collection Form

Participating teachers tracked student work completion via the work completion checklist (see Appendix C). Each teacher checked off completed worksheets for both instructional groups, recording the total number of worksheets completed by each student. Data were compared between instructional groups (i.e., *iPad*, traditional teaching). Only worksheets that were 100% completed were recorded.

Teacher Perceptions of Student Engagement Survey

Participating teachers completed a post-intervention survey (see Appendix D). The survey consisted of three questions designed to assess teacher perceptions of student engagement. Teachers selected the answer that best represented their perception of student engagement during the study. Survey data were compared between instructional groups (i.e., *iPad*, traditional teaching).

Student Attitudes and Beliefs Questionnaire

Students participating in the *iPad* (Apple, 2010) group completed a postintervention questionnaire (see Appendix F). The questionnaire assessed student attitudes and beliefs about using the *iPad* (Apple, 2010) for learning. The questionnaire used a Likert-type scale to measure student opinions regarding the use of the *iPad* (Apple, 2010). Teachers read each statement aloud and students ranked their agreement with the statements using a picture-supported scale of 1-3, with 1 representing agree and 3 representing disagree.

Materials

Several materials were required for the implementation of this study. These materials were: (a) *iPads* (Apple, 2010), (b) the *ULS* (n2y, 2013) curriculum, (c) the *News-2-you* (2013) newspaper (i.e., digital, paper), (d) the *Notability app* (Ginger Labs, 2013), (e) the *iBooks app* (Apple, 2013), and (f) the *Dropbox app* (Dropbox Inc, 2013). A description of each of these materials is included below.

iPads (Apple, 2010)

A total of 84 *iPads* (Apple, 2010) were provided by Assistive Technology Services Department of the participating school district. The *iPads* (Apple, 2010) were programmed with the *News-2-you* (2013) *app*, *Notability app* (Ginger Labs, 2013), *iBooks app* (Apple, 2013), and *Dropbox app* (Dropbox Inc, 2013) for training and

instructional materials. Each classroom in the *iPad* (Apple, 2010) instructional group received five *iPads* (Apple, 2013) at the beginning of the study. Each classroom assigned to the traditional teaching group received five *iPads* (Apple, 2010) upon conclusion of this study. All participating classrooms received a separate *iPad* (Apple, 2013) to record and upload lessons to assess teaching fidelity. This *iPad* (Apple, 2013) was turned in and all information and data erased at the conclusion of the study.

The Unique Learning System Curriculum (n2y, 2013)

This study implemented a cloud-based adapted curriculum. The *Unique Learning System (ULS)* (n2y, 2013) curriculum is aligned to the Common Core State Standards (CCSS) and is designed for students with significant cognitive disabilities. All classrooms have access to the *ULS* (n2y, 2013) online curriculum and each teacher created an individual login to access lessons and instructional materials (see Appendix L). These materials were used during the study. Copyright permission was granted to use these materials in this study (see Appendix A).

News-2-you Newspaper (2013)

This study incorporated the *News-2-you* (n2y, 2013) newspaper. The *News-2-you* (n2y, 2013) newspaper is a picture-supported newspaper adapted for students with significant cognitive deficits and aligned to the instructional targets of the *ULS* (n2y, 2013) curriculum. The newspaper includes six activity sheets (i.e., game page, review, crossword puzzle, picture-suduko, think page) that focus on social studies, comprehension, and writing. This study utilized the *News-2-you* newspaper (n2y, 2013) in two versions (i.e., paper, *app*). The content of both versions was identical and students in both groups (i.e., *iPad*, traditional teaching) were given ten-minutes daily to work on

the material. Copyright permission was granted to use these materials in this study (see Appendix A).

Traditional newspaper. Students participating in the traditional teaching group were given a paper copy of the *News-2-you* (n2y, 2013) newspaper with paper worksheets (see Appendix M). Each day, the teachers read the newspaper in small groups of two-to-five students. Students would then work for ten minutes with the paper newspaper and a pencil. At the end of each day, teachers collected the *News-2-you* (n2y, 2013) packets and recorded completed work on the work completion checklist (see Appendix C).

iPad (Apple, 2010) *app* newspaper. Students participating in the *iPad* (Apple, 2010) group accessed the *News-2-you* (n2y, 2013) newspaper via *iPad app* (Apple, 2010) (see Appendix N). Each day, the teachers read the newspaper via the *iPad* (Apple, 2010) in small groups of two-to-five students. Students would then work for ten minutes with the digital newspaper. Students would press the play button to read the pages of the newspaper and select answers on the activity sheets via touch. At the end of each day, teachers would login to the *News-2-you app* (n2y, 2013) to view each student's work and record completed work onto the work completion checklist (see Appendix C). Students were trained on the *News-2-you* (n2y, 2013) *app*.

Notability (Ginger Labs, 2013)

Students in the *iPad* (Apple, 2010) group used the *Notability app*. *Notability* (Ginger Labs, 2013) is a digital note-taking app that allowed students to complete *ULS* (n2y, 2013) worksheets using the *iPad* (Apple, 2010). Students were trained on the use of *Notability* (Ginger Labs, 2013).

iBooks (Apple, 2013)

Students in the *iPad* (Apple, 2010) group used the *iBooks app. iBooks* (Apple, 2013) allowed students digital access to *ULS* (n2y, 2013) books. These books were incorporated into the *ULS* (n2y, 2013) lessons and were used throughout the study. Students were trained on the use of *iBooks* (Apple, 2013).

Dropbox (Dropbox Inc, 2013)

Teachers in the *iPad* (Apple, 2010) group used the *Dropbox* (Dropbox Inc, 2013) *app. Dropbox* (Dropbox Inc, 2013) allowed teachers to securely upload lesson fidelity videos directly from the *iPad* (Apple, 2010). Teachers were trained on the use of *Dropbox* (Dropbox Inc, 2013).

Training

All participating teachers as well as students participating in the *iPad* (Apple, 2010) group received targeted training. Additionally, the interrater observer and interrater scorer received training specific to their roles in the study.

Unique Learning System Curriculum Training

In order to ensure fidelity of the two interventions, participating teachers attended a three-hour training on the *Unique Learning System (ULS)* (n2y, 2013) curriculum specific to their assigned instructional group (i.e., *iPad*, traditional teaching).

Teachers assigned to the traditional teaching group. Teachers assigned to the traditional teaching group received training on how to implement the *ULS* (n2y, 2013) curriculum using paper materials. The training focused on the following topics: (a) website navigation, (b) lessons and materials, and (c) data collection. During the training,

all teachers practiced various tasks required in the *ULS* (n2y, 2013) curriculum (e.g., completing the *ULS* student profile, *ULS* lesson delivery, assessment administration) (see Appendix O). Participants were required to reach 100% accuracy in the presentation of lesson components as outlined in the teaching fidelity checklist (see Appendix I). Teachers were also trained on how to use the *iPad* (Apple, 2010) to videotape and upload lessons to the secured *Dropbox* (Dropbox Inc, 2013) account for assessment.

Teachers assigned to the *iPad* group. Teachers assigned to the *iPad* (Apple, 2010) group received training on how to implement the ULS (n2y, 2013) curriculum using the *iPad* (Apple, 2010). The training focused on the following topics: (a) ULS (n2y, 2013) website navigation, (b) lessons and materials, and (c) data collection. During the training, all teachers practiced various tasks required in the ULS (n2y, 2013) curriculum (e.g., completing the ULS student profile, ULS lesson delivery, assessment administration) (see Appendix P). Participants were required to reach 100% accuracy in the presentation of lesson components as outlined in the teaching fidelity checklist (see Appendix I). A brief tutorial of the *iPad* (Apple, 2010) device was provided. This tutorial focused on: (a) *iPad* (Apple, 2010) controls and navigation, (b) *iPad* (Apple, 2010) accessibility features (e.g., Guided Access), and (c) required apps (i.e., News-2-you app, *iBooks, Notability, Dropbox).* At the conclusion of this tutorial, teachers were given an opportunity to practice each task using the *iPad* (Apple, 2010). Participants were required to demonstrate 100% accuracy in (a) identifying *iPad* (Apple, 2010) controls, and (b) enabling and disabling *Guided Access* (see Appendix P). Teachers were also trained on how to use the *iPad* (Apple, 2010) to videotape and upload lessons to the secured Dropbox (Dropbox Inc, 2013) account for assessment.

Student Training

Students assigned to the *iPad* (Apple, 2010) instructional group received a total of 50-minutes (10 minutes per day for 5 days) of in-class training on the *iPad* (Apple, 2010). This training, administered by the teacher, taught students how to use the basic *iPad* (Apple, 2010) controls (e.g., home button, touch screen), the *News-2-you app* (n2y, 2013), the *iBooks app* (Apple Inc, 2013), and the *Notability app* (Ginger Labs, 2013) (see Appendix Q). Students were required to demonstrate that they were able to touch the screen and select an object independently to 100% accuracy to participate in this study.

Interrater Observer of Teacher Fidelity Training

One assistive technology specialist attended a two-hour training session that provided an overview of the *ULS* (n2y, 2013) lesson plans and materials as well as instruction on the use of the teaching fidelity checklist (see Appendix I). During this training, the interrater observer of teacher fidelity was given an opportunity to practice using the teacher fidelity checklist and sample lessons. These checklists were reviewed and corrective feedback provided. Training concluded after interrater agreement reached 100% as calculated by the following formula [(agreements/ (agreements/ disagreements) X 100 = percent of teacher fidelity agreement)]. Additionally, the interrater observer of teacher fidelity attended a *ULS* (n2y, 2013) curriculum training.

Interrater Scorer Training

One assistive technology specialist served as the interrater scorer and rescored 25% of the pretest, posttest, and maintenance assessments. The interrater scorer attended a two-hour training session on the data collection instruments used in this study (i.e., pre, post, and maintenance assessments). The interrater scorer reviewed a scoring

demonstration for each instrument and then scored two of the assessments. The interrater scorer's scores were compared to data collected during the pretesting phase. Training concluded after interrater agreement with the pre-test data reached 100% as calculated by the following formula [(agreements/ (agreements/disagreements) X 100 = percent of interrater agreement)].

Design and Procedures

This study was conducted over a nine-week period and consisted of three phases. These phases included selection, preparation, and intervention. See Figure 1 for a diagram of the phases.

Figure 1

Phases of the Study



Phase One

In phase one, schools were recruited for the study. Meetings were arranged with the executive director of special education for the participating school district to explain the study and obtain support for the research. Once support was obtained at the district level, school principals were contacted to solicit school sites. Elementary and middle schools with self-contained programs for students with intellectual disabilities were the foci for this study and principals of these schools were contacted via email. Fourteen classrooms were secured for participation. Consent was obtained from participants (i.e., teacher, students) and parents of participants.

Teacher consent. Informed consent forms were distributed to teachers of students with ID (see Appendix H). A description of the study including the training and data collection requirements was provided in writing to each teacher. Consent was obtained prior to the first training.

Parental consent. Informed consent forms were distributed to parents of students with ID (see Appendix F). A letter describing the study and a consent form was sent home with each student. Letters were available in English and Spanish. All students in the classroom participated in this study, but only data from students whose parents provided a signed consent form were analyzed.

Student participants. Students in this study were: (a) identified as having an intellectual disability or developmental delay, (b) had an individualized education plan (IEP) in the state of Nevada, and (c) attended a self-contained program for students with ID. Parents reviewed the study with their child and student assent for participation was obtained (see Appendix G).

Phase Two

Phase Two included providing training to teachers, the interrater observer of teacher fidelity, and the interrater scorer. Training specific to the *iPad* (Apple, 2010) also was provided to students assigned to the *iPad* (Apple, 2010) group. Teachers completed a *ULS* (n2y, 2013) student profile for each student during this phase to determine the level of instructional and assessment materials to use with each student.

Teacher training. All participating teachers attended a three-hour training on the *ULS* (n2y, 2013) curriculum specific to their assigned instructional group (i.e., *iPad*, traditional teaching). Training consisted of a review of the lesson and data collection materials used during the study (see Appendix O). Seven of the classroom teachers (randomly assigned to the *iPad* group) received a tutorial of the *iPad* (Apple, 2010) (e.g., device controls and navigation, accessibility features, required apps) (see Appendix P).

Interrater observer training. The interrater observer of teacher fidelity attended a two-hour training at which she learned to use the fidelity checklist and *ULS* (n2y, 2013) lesson materials. During this training, the interrater observer of teacher fidelity had an opportunity to practice using the teaching fidelity checklist (see Appendix I). Additionally, the observer attended a three-hour *ULS* (n2y, 2013) curriculum training with the teachers.

Interrater scorer training. The interrater scorer attended a two-hour training focused on the pre, post, and maintenance assessments. Opportunities for the interrater scorer to practice scoring each instrument were provided. Additionally, the scorer attended a three-hour *ULS* (n2y, 2013) curriculum training with the teachers.

Student training. Students assigned to the *iPad* (Apple, 2010) group were trained by their teachers to use the *iPad* (Apple, 2010). The training focused on the *News-2-you* (n2y, 2013) *app, iBooks app* (Apple, 2013), and *Notability app* (Ginger Labs, 2013) (see Appendix Q).

Completion of Unique Learning System student profiles. All participating teachers completed a *ULS* (n2y, 2013) student profile for each of their students. This profile contained a series of student-centered questions that teachers answered independently. This profile was specifically designed to provide guidance to the teacher on the appropriate material and assessment adaptations to be utilized during lesson implementation. Upon completion of the *ULS* (n2y, 2013) student profile, each student was assigned a differentiation level (i.e., level 1, level 2, level 3) that corresponded to the lesson materials that were most appropriately adapted for that individual.

Phase Three

Phase three of this study took place over the course of six weeks. This phase consisted of administering pretests, the instructional intervention, posttests, and maintenance assessments. This phase also included the post-intervention survey and questionnaire.

Pretest. A paper version of the pretest from the *ULS* (n2y, 2013) curriculum was given to each student, regardless of instructional group, on the first day of Phase Three. This assessment was used to measure the content knowledge of all students prior to instruction. This assessment, consisting of six questions, was read to each student. The students selected their answer choice from a field of three choices (see Appendix B).

Instructional implementation. Once pretesting was completed, teachers began implementing ULS (n2y, 2013) lessons (see Appendix L). All lessons were provided to teachers based on instructional grouping (i.e., lessons provided on paper or lessons provided digitally on the *iPad*) and structured in a 50-minute period. The 50-minute lesson period included 15-minutes of whole group instruction and 30-minutes of small group instruction (e.g., 3 groups, 10-minutes per group). During whole group instruction, students were provided differentiated lesson materials (i.e., ULS books, worksheets) based on information gathered from the ULS (n2y, 2013) student profile (i.e., student differentiation level). Content of the lesson materials was identical but divided into three differentiation levels (i.e., independent, supported, participation) and aligned to the CCSS, more specifically reading for informational text standards. After whole group instruction, students were divided into smaller groups and received 10-minutes of instruction on the *News-2-you* newspaper (n2y, 2013) and completed corresponding worksheets. Each teacher recorded the number of completed worksheets on the worksheet completion checklist daily (see Appendix C). This structured lesson format was implemented for four weeks. Students in the traditional teaching group participated in lessons and completed worksheets using paper materials while students in the *iPad* (Apple, 2010) group participated in lessons and completed worksheets using the *iPad* (Apple, 2010). Fidelity of instruction was monitored via videotaped lessons on a daily basis to ensure accurate implementation of the interventions.

Posttest and maintenance assessment. Following the four-week instructional implementation of the *ULS* (n2y, 2013) lessons, a paper version of the posttest was administered to all students (see Appendix B). After two weeks of no instructional

intervention (maintenance phase), the maintenance assessments were administered following the same pretest and posttest format for all participants.

Post-intervention teacher survey. Following the posttest, all teachers completed an online survey regarding their perceptions of student engagement (see Appendix D). This survey asked a series of questions designed to analyze teacher perceptions of student engagement.

Post-intervention student questionnaire. After the implementation of the intervention and the collection of all related data, students assigned to the *iPad* (Apple, 2010) group were asked to complete a post-intervention questionnaire (see Appendix E). The questionnaire was designed to assess student attitudes and beliefs concerning using the *iPad* (Apple, 2010) as a learning tool. This questionnaire was picture-supported to enhance cognitive accessibility for participating students.

Data Collection

Data were collected throughout the study in order to answer the research questions. Data collection forms related to: (a) pre, post, and maintenance assessments, (b) work completion, (c) teacher perceptions of student engagement, (d) student attitudes and beliefs about using the *iPad* (Apple, 2010) as a learning tool, and (e) teacher fidelity to the intervention were used.

Pre, Post, and Maintenance Assessments

The pre, post, and maintenance assessments were collected for both instructional groups (i.e., *iPad*, traditional teaching) using assessments included in the *Unique Learning System (ULS)* (n2y, 2013) curriculum (see Appendix B). These data were entered into SPSS for analysis and compared within and between instructional groups (i.e., *iPad*, traditional teaching).

Work Completion

Work completion data were collected using a checklist for both instructional groups (i.e., *iPad*, traditional teaching) (see Appendix C). These data were entered into SPSS for analysis and compared across instructional groups (i.e., *iPad*, traditional teaching).

Teacher Perceptions of Student Engagement

Teacher perceptions of student engagement were collected post-intervention via an online survey (see Appendix D). Responses were entered into SPSS for analysis and compared across instructional groups (i.e., *iPad*, traditional teaching).

Student Attitudes and Beliefs

Data concerning student attitudes and beliefs about using the *iPad* (Apple, 2010) as a learning tool were collected post-intervention through questionnaire (see Appendix E). Responses were entered into SPSS for analysis and evaluated.

Teacher Fidelity Data

Teacher fidelity data were collected using the teaching fidelity checklist (see Appendix I). At the end of each lesson, teacher fidelity was determined using the following formula [lesson components implemented appropriately/ (lesson components implemented appropriately) X 100 = percent of teacher fidelity]. This information was communicated to teachers daily.

Interrater Reliability

Interrater reliability was calculated for the scoring of pre, post, and maintenance assessments and the student and teacher satisfaction questionnaires. Interrater reliability was calculated by comparing the original data collection with the interrater observers' data collection using the following formula [agreements/(agreements + disagreements) X 100 = percent of reliability].

Treatment of Data

Data from the pre, post, and maintenance measures were used to answer the following questions:

Research Question One. Does the content knowledge of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities increase with the use of the *iPad* (Apple, 2010) when compared to traditional teacher methods?

Analysis: In order to determine if significant differences exist between the *iPad* (Apple, 2010) group and the traditional teaching group, a 2 (group) X 2 (measure) mixed-model ANOVA was used to compare groups. Alpha was set at .05.

Research Question Two. Is the content knowledge of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities better maintained with the use of the *iPad* (Apple, 2010) when compared to traditional teacher methods?

Analysis: In order to determine if significant differences exist between the *iPad* (Apple, 2010) group and the traditional teaching group, an Independent *t*-test was used to compare groups. Alpha was set at .05.

Data from the work completion checklist were used to answer the following question:

Research Question Three. Does the work completion of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities differ with the use of digital worksheets on the *iPad* (Apple, 2010) when compared to traditional worksheets?

Analysis: In order to determine if significant differences exist between the *iPad* (Apple, 2010) group and the traditional teaching group, an Independent *t*-test was used to compare groups. Alpha was set at .05.

Data from the post-intervention survey were used to answer the following question:

Research Question Four. Do teacher perceptions of student engagement differ with the use of the *iPad* (Apple, 2010) when compared to traditional teaching methods?

Analysis: In order to determine if significant differences exist between the *iPad* (Apple, 2010) group and the traditional teaching group, an Independent *t*-test was used to compare groups. Alpha was set at .05.

Data from the teacher and student questionnaires were used to answer the following questions:

Research Question Five. For the *iPad* (Apple, 2010) group, what are the student attitudes and beliefs concerning using the *iPad* (Apple, 2010) as a learning tool?

Analysis: In order to examine student attitudes and beliefs about using the *iPad* (Apple, 2010), descriptive analyses were used.

CHAPTER FOUR

RESULTS

The literature highlights a need to improve the support for accessing general education curricula for students with intellectual disabilities (ID) and research supports technology (i.e., *iPad*) as a catalyst for this change (Lee et al., 2010; O'Malley et al., 2013; Wehmeyer et al., 2003). Recently, the use of the *iPad* (Apple, 2010) as an instructional tool is emerging as a potential support to access general education curricula for these students (Burton et al., 2013; Hart & Whalon, 2012; O'Malley et al., 2013). However, more research is needed to explore the instructional impact of the *iPad* (Apple, 2010) in specific curricular areas (e.g., reading, math for students with ID (Burton et al., 2013; Hart & Whalon, 2012; O'Malley et al., 2013).

The purpose of this study was to explore the efficacy of *iPad* (Apple, 2010) technology on the teaching and learning of students with ID. This study examined the learning of academic content aligned to the Common Core State Standards (CCSS) using traditional teaching methods (i.e., paper, pencil) compared to the use of the *iPad* (Apple, 2010). Additionally, the study measured student engagement through a teacher perception questionnaire and work completion across instructional groups (i.e., *iPad*, traditional teaching). Student perceptions of the *iPad* (Apple, 2010) as a learning tool were examined for the students assigned to the *iPad* (Apple, 2010) group. Seventy-two students with ID and fourteen special education teachers participated in the study (see Tables 1, 2, 3 and 4).

Classrooms were randomly assigned to one of two instructional groups (i.e., traditional teaching, *iPad*). Seven classrooms used the *Unique Learning System (ULS)*

(n2y, 2013) curriculum using traditional teaching methods and seven classrooms used the *ULS* (n2y, 2013) curriculum and *iPads* (Apple, 2010). Prior to the implementation of *ULS* (n2y, 2013) lessons, all students completed a pretest designed to measure prior knowledge of lesson objectives (see Appendix B). Students in both intervention groups received daily instruction using the *ULS* (n2y, 2013) curriculum for 50-minutes, five days a week for a total of four weeks. Students in the experimental group (n = 41) received their instructional materials on the *iPad* (Apple, 2010) while students in the control group (n = 31) received paper instructional materials. Teachers recorded the number of worksheets each student completed throughout the intervention (see Appendix C). Fidelity observations were conducted and scored daily (see Appendix I).

Following the four weeks of instructional intervention, the students completed a posttest that measured their knowledge of lesson objectives (see Appendix B). No instructional intervention occurred for two weeks. At the conclusion of the instructional intervention, a maintenance assessment, focused on student knowledge retention of the lesson objectives, was completed (see Appendix B). All teachers completed a post-intervention survey to measure their perceptions of student engagement. The students who participated in the *iPad* (Apple, 2010) group completed a questionnaire to examine their attitudes and beliefs concerning the use of the *iPad* (Apple, 2010) as a learning and instructional tool.

Teacher Fidelity to Instruction

Teacher fidelity checklists were developed to measure teacher adherence to the instructional intervention (see Appendix I). An assistive technology specialist with experience working with students with ID reviewed and scored each lesson using the

checklist. Fidelity was calculated using the following formula: [(number of steps implemented correctly)/(total number of steps in lesson) x 100 = percent of fidelity for each lesson]. The average of all lessons was calculated to determine the fidelity to intervention for each teacher (see Table 5). Overall fidelity measures for each group (i.e., *iPad*, traditional teaching) were determined by calculating the fidelity averages for all teachers. The *iPad* (Apple, 2010) teachers had a fidelity percentage of 96.24 and the traditional teaching group had a fidelity percentage of 96.60. These data indicate that participating teachers in each instructional group (i.e., *iPad*, traditional teaching) had a high level of instructional fidelity to the intervention used (see Table 6).

Teacher	Group	Percent of Fidelity
А	Traditional Teaching	97.50%
В	Traditional Teaching	97.50%
С	Traditional Teaching	98.75%
F	Traditional Teaching	91.25%
G	Traditional Teaching	93.75%
J	Traditional Teaching	97.50%
Κ	Traditional Teaching	100.00%
D	iPad	90.00%
Е	iPad	92.50%
Н	iPad	90.00%
Ι	iPad	100.00%
L	iPad	97.50%
М	iPad	98.75%
Ν	iPad	100.00%
Ν	iPad	100.00%

Individual Teacher Fidelity to Intervention Scores

Group Fidelity to Intervention Scores

Group	Percent of Fidelity	
iPad	96.24	
Traditional Teaching	96.60	

Interrater Observer

An assistive technology specialist with knowledge of the research protocol was selected to rescore 25% of the videotaped lessons. This interrater observer rescored the lessons for both the *iPad* (Apple, 2010) and traditional teaching group. The scores were compared and interrater agreement was calculated using the following formula: [agreements/(agreements + disagreements)] x 100 = percent of agreement. Overall, interrater agreement for the scoring of teacher fidelity was 99.28%. These findings indicate a high level of interrater agreement related to the scoring of teacher fidelity videos in this study. Interrater agreement scores for teacher fidelity are found in Table 7.

Source	Agreements	Disagreements	Total	Percentage of Agreement
Lesson Steps	1112	8	1112/1120	(1112/1120) x 100 = 99.28%
Interrater Reliability for Teacher Fidelity Scores = 99.28%				

Interrater Observer Reliability for Teacher Fidelity

Reliability of Assessments

An assistive technology specialist with knowledge of the research protocol was selected to rescore 25% of the assessments administered (i.e., pretest, posttest, maintenance). The interrater scorer rescored 25% the three assessments for both the *iPad* (Apple, 2010) and traditional teaching group. The scores were compared and interrater agreement was calculated using the following formula: [agreements/ (agreements + disagreements)] x 100 = percent of agreement. Overall, interrater agreement for assessment scoring was 99.12%. These findings indicate a high level of interrater agreement related to the scoring of the assessments used in this study. Interrater agreement scores for student assessment data are found in Table 8.

Source	Agreements	Disagreements	Total	Percentage of Agreement
Student Assessments	339	3	339/342	(339/342) x 100 = 99.12%

Interrater Reliability for Student Assessment Scores

Interrater Reliability for Student Assessment Scores = 99.12%

Research Questions and Related Findings

The research questions associated with this study were designed to analyze: (a) academic student knowledge, (b) work completion, (c) student engagement as perceived by teachers, and (d) student beliefs concerning *iPad* (Apple, 2010) technology. Statistical analyses and a summary of findings are included below.

Analysis of Academic Student Knowledge

The students who participated in this study were administered an assessment that consisted of six questions designed to measure knowledge of *ULS* (n2y, 2013) lesson objectives (see Appendix B). The students completed this assessment three times throughout the study: (a) prior to implementation of the *ULS* (n2y, 2013) lessons as a pretest, (b) upon completion of the four-week *ULS* (n2y, 2013) lessons as a posttest, and (c) after a two-week maintenance period without instruction. Each question was scored and the scores added together to determine an overall assessment score. The scores were analyzed to compare the effectiveness of the *iPad* (Apple, 2010) or the traditional
instruction at increasing the knowledge of academic content of students with ID. Descriptive and inferential statistics were used to compare scores on these assessments. Descriptive statistics are presented in Table 9.

Data from the pretest and posttest assessments were used to answer the following research question:

Research Question 1: Does the content knowledge of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities increase with the use of the *iPad* (Apple, 2010) when compared to traditional teacher methods?

It was predicted that *iPad*-based instruction would result in increased student content knowledge when compared to traditional teaching methods.

Individual student pretest and posttest scores were combined to determine the group means and a 2 (group) X 2 (measure) mixed-model ANOVA was conducted to test for significant differences between the instructional groups (i.e., *iPad*, traditional teaching). Alpha was set at .05. The results were analyzed by grade band (i.e., primary K-2, intermediate 3-5, middle school 6-8).

Assessment	Mean	Standard Deviation	Ν
Primary Pretest			
iPad	7.40	3.65	10
Traditional Teaching	6.06	3.21	15
Primary Posttest			
iPad	10.40	1.83	10
Traditional Teaching	7.60	3.56	15
Intermediate Pretest			
iPad	5.84	1.51	13
Traditional Teaching	8.44	3.43	9
Intermediate Posttest			
iPad	8.46	3.17	13
Traditional Teaching	9.11	2.47	9
Middle School Pretest			
iPad	7.33	2.47	18
Traditional Teaching	7.14	5.01	7
Middle School Posttest			
iPad	9.11	2.92	18
Traditional Teaching	8.00	5.03	7

Summary of Means and Standard Deviations For Pre and Post Assessments

Primary (K-2 grades). The F test of within-subjects effects was significant [F(1,23) = 11.830, p = .002)]. This indicates that there was a significant difference between the scores related to student knowledge of *ULS* (n2y, 2013) lesson objectives between the pretest and posttest (see Table 10). The F test of between-subjects effects was not significant [F(1,23) = 3.335, p = .081)]. This indicates that there was not a significant difference between the posttest scores of the *iPad* (Apple, 2010) group when compared to the traditional teaching group (see Table 11). This means that one intervention was not significantly better at teaching academic content to students with ID for this grade band.

Table 10

Tests of Within-Subjects Effects for Primary Student Knowledge of Academic Content

Source	Type III Sum of Squares	df	Mean Squared	F	Sig.
Test	61.653	1	61.653	11.830	.002*
Error (Test)	119.867	23	5.212		

Note. * *p* < .05.

Source	Type III Sum of Squares	df	Mean Squared	F	Sig.
Group	51.253	1	51.253	3.335	.081
Error	353.467	23	15.368		

Tests of Between-Subjects Effects for Primary Student Knowledge of Academic Content

Intermediate (3-5 grades). The F test of within-subjects effects was significant [F(1,20) = 5.642, p = .028)]. This indicates that there was a significant difference between the scores related to student knowledge of *ULS* (n2y, 2013) lesson objectives between the pretest and posttest (see Table 12). However, the F test of between-subjects effects was not significant [F(1,20) = 2.945, p = .102)]. This indicates that there was not a significant difference between the posttest scores of the *iPad* (Apple, 2010) group when compared to the traditional teaching group (see Table 13). This means that one intervention was not significantly better at teaching academic content to students with ID in the intermediate grade band.

Source	Type III Sum of Squares	df	Mean Squared	F	Sig.
Test	28.643	1	28.643	5.642	.028*
Error (Test)	101.538	20	5.077		

Tests of Within-Subjects Effects for Intermediate Student Knowledge of Academic Content

Note. * *p* < .05.

Table 13

Tests of Between-Subjects Effects for Intermediate Student Knowledge of Academic Content

Source	Type III Sum of Squares	df	Mean Squared	F	Sig.
Group	28.050	1	28.050	2.945	.102
Error	190.496	20	9.525		

Middle school (6-8 grades). The F test of within-subjects effects was significant [F(1,23) = 6.822, p = .016)]. This indicates that there was a significant difference between the scores related to student knowledge of *ULS* (n2y, 2013) lesson objectives between the pretest and posttest (see Table 14). However, the F test of between-subjects

effects was not significant [F(1,23) = .199, p = .660)]. This indicates that there was not a significant difference between the posttest scores of the *iPad* (Apple, 2010) group when compared to the traditional teaching group (see Table 15). This means that one intervention was not significantly better at teaching academic content to students with ID in the middle school grade band.

Table 14

Tests of Within-Subjects Effects for Middle School Student Knowledge of Academic Content

Source	Type III Sum of Squares	df	Mean Squared	F	Sig.
Test	17.496	1	17.496	6.822	.016*
Error (Test)	58.984	23	2.565		
<i>Note.</i> $* p < .05$	5.				

Source	Type III Sum of Squares	df	Mean Squared	F	Sig.
Group	4.269	1	4.269	.199	.660
Error	493.651	23	21.463		

Tests of Between-Subjects Effects for Middle School Student Knowledge of Academic Content

Knowledge Maintenance

The 4-week instructional intervention for both groups was followed by a 2-week period of maintenance (i.e., no instruction). Upon conclusion of the maintenance period, students were given an assessment intended to measure retention (see Appendix B). Descriptive and inferential statistics were used to compare scores on these assessments. Descriptive statistics are presented in Table 16.

Assessment	Mean	Standard Deviation	Ν
Primary Maintenance			
iPad	9.40	1.89	10
Traditional Teaching	9.73	3.45	15
Intermediate Maintenance			
iPad	8.61	3.09	13
Traditional Teaching	8.66	3.00	9
Middle School Maintenance			
iPad	10.11	2.78	18
Traditional Teaching	8.00	3.82	7

Summary of Means and Standard Deviations For Maintenance Assessments

Data from the maintenance assessments were used to answer the following research question:

Research Question 2: Is the content knowledge of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities better maintained with the use of the *iPad* (Apple, 2010) when compared to traditional teacher methods?

It was predicted that students would demonstrate a better maintenance of content knowledge in the *iPad*-based instructional group when compared to the traditional teaching group.

Individual student maintenance assessment scores were combined to determine the group means and an independent *t*-test was conducted to test for significant differences between the instructional groups (i.e., *iPad*, traditional teaching). Alpha was set at .05. The results were analyzed by grade band (i.e., primary K-2, intermediate 3-5, middle school 6-8).

Primary (K-2 grades). The *t*-test was not significant $[t(_{23}) = .277, p = .784]$ for the maintenance scores of the primary students (see Table 17). This indicates that there was not a significant difference in the maintenance of learned concepts between the *iPad* (Apple, 2010) and traditional teaching groups. The use of the *iPad* (Apple, 2010) did not have a significant effect on the knowledge maintenance of the students with ID in the primary grade band.

Table 17

Ina	lependen	et Sample	es Test d)f	Maintenance .	4ssessment j	for	Primary	Stud	ents
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	Mean Difference	Std. Error Difference	t	df	Sig. (2-tailed)
Maintenance Assessment	.3333	1.20185	.277	23	.784

Intermediate (3-5 grades). The *t*-test was not significant $[t(_{20}) = .039, p = .970]$ for the maintenance scores of the intermediate students (see Table 18). This indicates that there was no significant difference in the maintenance of learned concepts between the *iPad* (Apple, 2010) and traditional teaching groups. The use of the *iPad* (Apple, 2010)

did not have a significant effect on the knowledge maintenance of the students with ID in the intermediate grade band.

Table 18

	Mean Difference	Std. Error Difference	t	df	Sig. (2-tailed)
Maintenance Assessment	.05128	1.32621	.039	20	.970

Independent Samples Test of Maintenance Assessment for Intermediate Students

Middle school (6-8 grades). The *t*-test was not significant $[t_{(23)} = -1.533, p =$

.139] for the maintenance scores of the middle school students (see Table 19). This indicates that there was no significant difference in the maintenance of learned concepts between the *iPad* (Apple, 2010) and traditional teaching groups. The use of the *iPad* (Apple, 2010) did not have a significant effect on the knowledge maintenance of students with ID in the middle school grade band.

	Mean Difference	Std. Error Difference	t	df	Sig. (2-tailed)
Maintenance Assessment	-2.11111	1.37693	-1.533	23	.139

Independent Samples Test of Maintenance Assessment for Middle School Students

Analysis of Student Work Completion

Each student who participated in this study was assigned either a digital or paper worksheet to complete each day. A total of twenty worksheets were assigned to each student. Teachers recorded completed worksheets on the worksheet completion checklist (see Appendix C). A worksheet was considered complete if an answer was selected, either digitally or by using a pencil for each question. At the end of the study, the number of completed worksheets was tabulated for each student and the numbers analyzed across groups (i.e., *iPad*, traditional teaching). Descriptive and inferential statistics were used to compare worksheet completion across groups. Descriptive statistics are presented in Table 20.

Group	Mean	Standard Deviation	Ν	
Primary				
Digital	10.50	4.55	10	
Traditional	7.13	5.70	15	
Intermediate				
Digital	13.53	3.71	13	
Traditional	8.77	3.76	9	
Middle School				
Digital	17.50	2.85	18	
Traditional	13.57	6.87	7	

Summary of Means and Standard Deviations for Worksheet Completion

Data from the work completion checklists were used to answer the following research question:

Research Question 3: Does the work completion of students (i.e., K-2, 3-5, 6-8) with intellectual disabilities differ with the use of digital worksheets on the *iPad* (Apple, 2010) when compared to traditional worksheets?

It was predicted that the use of *iPad*-compatible worksheets would result in increased student work completion when compared to traditional worksheets.

Individual student worksheet completion scores were combined to determine the group means and an independent *t*-test conducted to test for significant differences

between the worksheets (i.e., digital, traditional). The results were analyzed by grade band (i.e., primary K-2, intermediate 3-5, middle school 6-8).

Primary (K-2 grades). The *t*-test was not significant $[t(_{23}) = -1.561, p = .132]$ for worksheet completion by students in the primary grade band (see Table 21). This indicates that there was not a significant difference in the mean work completion scores between the digital and traditional worksheets. The use of the digital worksheets on the *iPad* (Apple, 2010) did not have a significant effect on the amount of worksheets students with ID completed in the primary grade band.

Table 21

Independent Samples Test of Worksheet Completion for Primary Students

	Mean Difference	Std. Error Difference	t	df	Sig. (2-tailed)
Work Completion	-3.36667	2.15728	-1.561	23	.132

Intermediate (3-5 grades). The *t*-test was significant $[t(_{20})=-2.941, p=.008]$ for the worksheets completed by students with ID in the intermediate grade band (see Table 22). This indicates that there was a significant difference in the mean worksheet completion scores between the digital worksheets on the *iPad* (Apple, 2010) and traditional worksheet groups. The use of the digital worksheets on the *iPad* (Apple, 2010) had a significant effect on the amount of worksheet students with ID completed in the intermediate grade band. For the intermediate grade band, students with ID participating

in the *iPad* (Apple, 2010) group completed more digital worksheets than students with ID using traditional paper worksheets.

Table 22

	Mean Difference	Std. Error Difference	t	df	Sig. (2-tailed)
Work Completion	-4.76068	1.61897	-2.941	20	.008*
<i>Note.</i> $* p < .05$.					

Independent Samples Test of Worksheet Completion for Intermediate Students

Middle School (6-8 grades). The *t*-test was significant $[t_{(23)}=-2.058, p=.05]$ for the worksheets completed by students with ID in the middle school grade band (see Table 23). This indicates that there was a significant difference in the mean worksheet completion scores between the digital worksheets on the *iPad* (Apple, 2010) and traditional worksheet groups. The use of the digital worksheets on the *iPad* (Apple, 2010) had a significant effect on the amount of worksheet students with ID completed in the middle school grade band. For the middle school grade band, students with ID participating in the *iPad* (Apple, 2010) group completed more digital worksheets than students with ID using traditional paper worksheets.

	Mean Difference	Std. Error Difference	t	df	Sig. (2-tailed)
Work Completion	-3.92857	1.90848	-2.058	23	.05*
N . * . 05					

Independent Samples Test of Worksheet Completion for Middle School Students

Note. * *p* < .05.

Analysis of Student Engagement

The teachers participating in this study completed a post-intervention survey consisting of three questions designed to assess their perceptions of student engagement (see Appendix D). Each question was scored and the scores analyzed to compare the engagement of students across instructional groups (i.e., *iPad*, traditional teaching). Descriptive and inferential statistics were used to compare survey question scores. Descriptive statistics are presented in Table 24.

Engagement	Mean	Standard Deviation	Ν	
Level of engagement in ULS lessons.				
iPad	2.71	.488	7	
Traditional Teaching	1.86	.378	7	
Level of engagement in ULS assessments				
iPad	2.71	.488	7	
Traditional Teaching	1.86	.690	7	
Level of independence in completing News-2- you worksheets.				
iPad	2.29	.488	7	
Traditional Teaching	1.57	.535	7	

Summary of Means and Standard Deviations for Student Engagement

Data from the teacher perception survey were used to answer the following research question:

Research Question 4: Do teacher perceptions of student engagement differ with the use of the *iPad* (Apple, 2010) when compared to traditional teaching methods?

It was predicted that teachers would report a higher level of engagement by students participating in the instruction with the *iPads* (Apple, 2010) when compared to students in the traditional teaching group.

Teacher rating scores were combined for each survey question to determine the group means and an independent *t*-test conducted to test for significant differences between the instructional groups (i.e., *iPad*, traditional teaching).

Student engagement during lessons. The *t*-test was significant $[t(_{12})= 3.674, p = .003]$ for perceived student engagement during instruction (see Table 25). This indicates that there was a significant difference in teacher perceptions of the engagement of students with ID between the *iPad* (Apple, 2010) and traditional teaching groups. The teachers perceived that students with ID in the *iPad* (Apple, 2010) group showed more engagement during lessons in which the *iPad* (Apple, 2010) was used than did the teachers when traditional instruction was used.

Table 25

Independent Samples Test of Teacher Perceptions of Student Engagement During Lessons

	Mean Difference	Std. Error Difference	t	df	Sig. (2-tailed)
Lesson Engagement	.857	.223	3.674	12	.003*
Note $*n < 05$					

Note. * p < .05.

Student engagement during assessments. The *t*-test was significant $[t(_{12})=$ 2.683, p = .020] for perceived student engagement during assessments (see Table 26). This indicates that there was a significant difference in the teacher perceptions of the engagement of the students with ID between the *iPad* (Apple, 2010) and traditional

teaching groups. The teachers perceived that students with ID in the *iPad* (Apple, 2010) group showed more engagement during assessments than did the teachers when traditional instruction was used.

Table 26

Independent Samples Test of Teacher Perceptions of Student Engagement During Assessments

	Mean Difference	Std. Error Difference	t	df	Sig. (2-tailed)
Assessment Engagement	.857	.223	2.683	12	.020*
<i>Note.</i> * <i>p</i> < .05.					

Student independence in completing worksheets. The *t*-test was significant $[t(_{12})= 2.611, p = .023]$ for teacher perceptions of student independence in worksheet completion (see Table 27). This indicates that there was a significant difference in the perceptions of teachers concerning the independence of students with ID in completing worksheets between the *iPad* (Apple, 2010) and traditional teaching groups. The teachers perceived that the students with ID independently completed more worksheets when materials were provided via the *iPad* (Apple, 2010) than did the teachers for the students taught via traditional instruction.

	Mean Difference	Std. Error Difference	t	df	Sig. (2-tailed)
Student Independence	.714	2.611	3.674	12	.023*
NT / 4 / 05					

Independent Samples Test of Teacher Perceptions of Student Independence

Note. * p < .05.

Analysis of Student Beliefs Concerning the Use of iPad Technology

At the conclusion of the study, the students who worked with the *iPad* (Apple, 2010) completed questionnaires designed to assess their attitudes and beliefs about using the *iPad* (Apple, 2010) as a learning tool (see Appendix E). The student questionnaire asked students to rate their perceptions about using the *iPad* (Apple, 2010) to complete assignments. The students ranked each statement on the questionnaire using a Likert scale, with 1 being agree and 3 being disagree. Data from the student questionnaires were analyzed and descriptive statistics are presented in Table 28. Descriptive statistics indicate that students with ID assigned to the *iPad* (Apple, 2010) group reported that the *iPad* (Apple, 2010) had a positive influence on their learning.

Statement	Percentage of Student Agreement	Ν
I like to use the <i>iPad</i> at school.	92.7%	41
The <i>iPad</i> helps me learn.	95.1%	41
It is easy to do my work on the <i>iPad</i> .	87.8%	41
I want to use the <i>iPad</i> more at school.	95.1%	41
I think the <i>iPad</i> is fun.	92.7%	41

Summary of Percentage of Agreement for Student Questionnaire

CHAPTER FIVE

DISCUSSION

Students with intellectual disabilities (ID) are often limited in their access to general education curricula (Browder et al., 2006; Browder et al., 2008). Facilitating such access for students with ID is both mandated by federal law and supported in recent research (IDEA, 2004; NLCB, 2001; Soukup et al., 2007). Technology, having the potential to enhance the learning for this population, is beginning to catch the interest of both researchers and educators (Cumming & Strnadova, 2012; Edyburn, 2013). Initial research involving the *iPad* (Apple, 2010) and the learning of students with disabilities is promising (Hart & Whalon, 2012; O'Malley et al., 2013). Determining the efficacy of the *iPad* (Apple, 2010) as a learning tool to teach an adapted curriculum (i.e., aligned to general education curricula) may positively impact academic achievement for students with ID (Palmer et al., 2012).

This purpose of this study was to compare the use of an adapted curriculum, aligned to the Common Core State Standards (CCSS), taught through two instructional formats (i.e., *iPad*, traditional teaching methods) to determine the most effective method for providing students with ID access to general education curricula. It was predicted that students would exhibit a higher knowledge of academic content, a higher rate of independent work completion, and an increased level of engagement with the use of the *iPad* (Apple, 2010) when compared to the traditional teaching group. Student beliefs concerning the use of the *iPad* (Apple, 2010) as a learning tool also were measured at the conclusion of the study. It was predicted that students would favor the use of the *iPad* (Apple, 2010) within the classroom.

This study involved 72 students from fourteen self-contained classrooms for students with intellectual disabilities. Student participants ranged in age from 5 to 13, were from diverse backgrounds, and were identified as having an intellectual disability. Fourteen teachers participated in the study.

Prior to the beginning of the study, classrooms were randomly assigned to one of two instructional groups (i.e., traditional teaching, *iPad*). Seven classrooms used the *Unique Learning System (ULS)* (n2y, 2013) curriculum via traditional teaching methods and seven used the *ULS* (n2y, 2013) curriculum and *iPads* (Apple, 2010). Prior to the implementation of *ULS* (n2y, 2013) lessons, all students completed a pretest designed to measure prior knowledge of lesson objectives. Students in both intervention groups received daily instruction using the *ULS* (n2y, 2013) curriculum for 50-minutes, five days a week for a total of four weeks. Students in the experimental group received instructional materials on the *iPad* (Apple, 2010) while students in the control group received paper instructional materials. Teachers recorded the number of worksheets each student completed throughout the intervention. Fidelity observations were conducted and scored daily.

Following the four weeks of instructional intervention, the students completed a posttest that again measured their knowledge of lesson objectives. No instructional intervention occurred for two weeks. A maintenance assessment focused on student knowledge of the lesson objectives, was given at the end of the two-week period. All teachers completed a post-intervention survey designed to measure perceived student engagement. Students who participated in the *iPad* (Apple, 2010) group completed a

questionnaire to examine attitudes and beliefs on the *iPad* (Apple, 2010) as a learning tool.

Analysis of Academic Student Knowledge

All students (regardless of instructional group) took the paper version of the pre, post, and maintenance assessments. The assessments contained questions aligned to instructional targets of the *ULS* (n2y, 2013) lessons and were administered individually. Assessments consisted of six questions that were read aloud by the teacher and students selected an answer from a field of three picture choices. Prior to the implementation of the intervention (i.e., *ULS* lessons), all students completed a pretest designed to measure prior knowledge of instructional targets. Following the four weeks of instructional intervention, the students completed a posttest that again measured their knowledge of instructional targets. Two weeks of no instructional intervention followed the posttest, and students then completed a maintenance assessment.

Primary (Grades K-2)

Following the instructional intervention (i.e., *ULS* lessons), the student mean scores from pretest to posttest increased (the *iPad* group increased by 3.00 points, the traditional group increased by 1.53 points) for the students in the primary grade band. The data indicated that there was not a significant difference in the scores between the two groups. Thus, the use of the *iPad* (Apple, 2010) was not more effective in teaching the academic objectives of the *ULS* (n2y, 2013) lessons for the primary groups. Finally, the *t*-test analysis of maintenance assessment scores indicated that there was not a significant difference between the instructional groups (i.e., *iPad*, traditional teaching). This indicates that neither group outperformed the other after a two-week maintenance

period (the primary *iPad* group mean was 9.40 points, the primary traditional group mean was 9.73 points). Thus, the use of the *iPad* (Apple, 2010) did not have a significant effect on the knowledge maintenance of students with ID in the primary grade band.

Intermediate (Grades 3-5)

Following the instructional intervention (i.e., *ULS* lessons), the student mean scores from pretest to posttest increased (the *iPad* group increased by 2.62 points, the traditional group increased by .67 points) for the students in the intermediate grade band. The data indicated that there was not a significant difference in the scores between the two groups. The use of the *iPad* (Apple, 2010) was not more effective in teaching the academic objectives of the *ULS* (n2y, 2013) lessons for the intermediate groups. Finally, the *t*-test analysis of maintenance assessment scores indicated that there was not a significant difference between the instructional groups (i.e., *iPad*, traditional teaching). This indicates that neither group outperformed the other after a two-week maintenance period (the intermediate *iPad* group mean was 8.61 points, the intermediate traditional group mean was 8.66 points). Thus, the use of the *iPad* (Apple, 2010) did not have a significant effect on the knowledge maintenance of students with ID in the intermediate grade band.

Middle School (Grades 6-8)

Following the instructional intervention (i.e., *ULS* lessons), the student mean scores from pretest to posttest increased (the *iPad* group increased by 1.78 points, the traditional group increased by .86 points) for the students in the middle school grade band. The data indicated that there was not a significant difference in the scores between the two groups. The use of the *iPad* (Apple, 2010) was not more effective in teaching the

academic objectives of the *ULS* (n2y, 2013) lessons for the middle school groups. Finally, the *t*-test analysis of maintenance assessment scores indicated that there was not a significant difference between the instructional groups (i.e., *iPad*, traditional teaching). This indicates that neither group outperformed the other after a two-week maintenance period (the middle school *iPad* group mean was 10.11 points, the middle school traditional group mean was 8.00 points). Thus, the use of the *iPad* (Apple, 2010) did not have a significant effect on the knowledge maintenance of students with ID in the middle school grade band.

Overall, for student academic knowledge, the increase in mean scores, as well as the performance of individual students, indicates that the learning of academic instructional targets did occur across both instructional groups. The lack of significance between intervention scores between the two groups (i.e., *iPad*, traditional teaching) may be explained by a number of factors. First, the number of students in each classroom varied from four to fourteen. This may have impacted the instructional intervention as the number of participants varied by group, a factor not easily controlled. Another factor related to the lack of significance may be the cognitive diversity of participating students with ID. The students in the study were identified as having an intellectual disability (ID) and were being educated in self-contained classrooms. However, they were not grouped based on their IQ scores. Students with ID have varying degrees of cognitive deficit that may interfere with their overall academic success (Downing, 2010). This variance could not be controlled in this study and may have skewed the assessment data.

Analysis of Student Work Completion

In order to determine if there was a difference in student work completion across instructional groups (i.e., *iPad*, traditional teaching) the participating teachers tracked student work completion using the work completion checklist (see Appendix C). Each teacher checked off completed worksheets for both instructional groups, recording the total number of worksheets completed by each student.

Primary (Grades K-2)

The mean scores for the students with ID in the *iPad* (Apple, 2010) group were higher following the instructional intervention. The *iPad* (Apple, 2010) group mean was 10.50 completed worksheets, and the traditional instructional group mean was 7.13 completed worksheets. However, inferential analysis of the data indicated that there was not a significant difference in the means of the two instructional groups. The use of the *iPad* (Apple, 2010) did not result in an increased number of worksheets independently completed by the students with ID in the primary grade band.

Intermediate (Grades 3-5)

The mean scores for the students with ID in the *iPad* (Apple, 2010) group were higher following the instructional intervention. The *iPad* (Apple, 2010) group mean was 13.53 completed worksheets, and the traditional instructional group mean was 8.77 completed worksheets. Inferential analysis of the data indicated that there was a significant difference in the means of the two instructional groups. The use of the *iPad* (Apple, 2010) did result in significantly more worksheets being completed independently by the students with ID than did traditional instruction.

Middle School (Grades 6-8)

The mean scores for the students with ID in the *iPad* (Apple, 2010) group were higher following the instructional intervention. The *iPad* (Apple, 2010) group mean was 17.50 completed worksheets, and the traditional instructional group mean was 13.57 completed worksheets. Inferential analysis of the data indicated that there was a significant difference in the means of the two instructional groups. The use of the *iPad* (Apple, 2010) did result in significantly more worksheets being completed independently by the students with ID than did traditional instruction.

In review, the lack of significance for the students with ID in the primary grade band may be explained by a number of factors, primarily attention and fine motor development. Students in the primary grade band were much younger than the students in the intermediate and middle school grade bands and may be lacking the requisite skills to use the *iPad* (Apple, 2010) proficiently (i.e., attention, distractibility, fine motor development). Even the training to use the *iPad* (Apple, 2010) may not have compensated for the developmental delays in these areas. Two of the primary grade band teachers, assigned to the *iPad* (Apple, 2010) group, mentioned that their students were excited to use the *iPads* (Apple, 2010), however, they became very distracted (e.g., repeatedly touching the screen to select and deselect answers). This non-purposeful touching may have inhibited the independent worksheet completion by the primary students. This is supported by observation wherein the younger students required some form of prompting or verbal redirection when they used the *iPads* (Apple, 2010).

Analysis of Student Engagement

In order to determine if there was a difference in student engagement across instructional groups (i.e., *iPad*, traditional teaching), participating teachers completed a survey (see Appendix D) following the instructional intervention. This survey asked a series of questions designed to analyze teacher perceptions of student engagement.

The survey focused on student engagement in three areas: (a) lessons, (b) assessments, and (c) worksheet completion. The mean scores for teachers in the *iPad* (Apple, 2010) group were higher following the instructional intervention for student lesson engagement (*iPad* group mean was 2.71, traditional group mean was 1.86), student assessment engagement (*iPad* group mean was 2.71, traditional group mean was 1.86), and student worksheet engagement (*iPad* group mean was 2.29, traditional group mean was 1.57). Inferential analysis of the data indicated that there was a significant difference in the means of the two instructional groups for all analyzed areas. The teachers who used the *iPad* (Apple, 2010) believed their students were more engaged during lessons, assessments, and worksheets than did the teachers in the traditional instructional group. This significance may be explained by the presence of the *iPad* (Apple. 2010) technology as students with ID who used the *iPad* (Apple, 2010) reported favorable opinions concerning the use of this technology for learning. Students with ID in the *iPad* (Apple. 2010) instructional group may have been more motivated to use novel technology than students with ID who used traditional instructional materials.

Analysis of Student Beliefs Concerning the Use of *iPad* Technology

After implementation of the intervention and the collection of all related data, students assigned to the *iPad* (Apple, 2010) group were asked to complete a post-

intervention questionnaire. This questionnaire was designed to assess student beliefs concerning using the *iPad* (Apple, 2010) as a learning tool. Data concerning student attitudes and beliefs about using the *iPad* (Apple, 2010) as a learning tool were collected through a questionnaire. Overall, 87.8% of students agreed that the *iPad* (Apple, 2010) made it easier to complete their work, 95.1% of students agreed that the *iPad* (Apple 2010) helped them learn, 92.7% of students reported enjoying the use of *iPad* (Apple, 2010) technology, 95.1% of students reported that they would like to use the *iPad* (Apple, 2010) more at school, and 92.7% of students believed that *iPad* (Apple, 2010) was fun to use for learning. The students with ID who used the *iPad* (Apple, 2010) during academic instruction reported positive experiences with this technology.

Conclusions

There are five conclusions that may be drawn from this study. They are based on the quantitative data that were collected. The limitations of this study should be considered when evaluating these conclusions.

1. Although the student mean scores on pre, post, and maintenance assessments increased following the instructional intervention, there was no significant difference between the two instructional groups. This indicates that the use of the *iPad* (Apple, 2010) was as effective as traditional teaching at teaching academic concepts to students with ID.

2. Although the student mean scores for worksheet completion were not significant for the primary grade band, student mean scores for worksheet completion in the intermediate and middle school grade bands were significant.

This indicates that the use of the *iPad* (Apple, 2010) was more effective in terms of work completion than traditional worksheets for students in the intermediate and middle school grade bands.

3. The primary students with ID who used the *iPads* (Apple, 2010) appeared to be more distracted than the intermediate and middle school students who used the *iPad* (Apple, 2010). This indicates that the use of the *iPad* (Apple. 2010) may be more appropriate and effective for older (i.e., intermediate, middle school) students with ID.

4. The data from the study indicated that the students with ID in the *iPad* (Apple, 2010) instructional groups were perceived by their teachers to be significantly more engaged during lessons, assessments, and worksheet completion than students in the traditional teaching group. This indicates that the use of the *iPad* (Apple, 2010) was perceived by the teachers to be a more effective learning tool than traditional teaching in engaging students with ID during instruction.
5. The students with ID reported that the *iPad* (Apple, 2010) had a positive

influence on their learning. This indicates that students with ID enjoyed the use of the *iPad* (Apple, 2010).

6. The use of the *ULS* (n2y, 2013) curriculum facilitated an increase in academic achievement (i.e., aligned to CCSS) for students with ID.

Recommendations for Further Research

Research suggests that both adapted curricula and cognitively accessible technology can support the learning limitations of students with ID (Palmer et al., 2012).

However, research involving students with ID and *iPad* (Apple, 2010) technology is only emerging (Kagohara et al., 2013). More research is needed to determine the best method for teaching these students using *iPad* (Apple, 2010) technology. Based on the results of this study, the following areas are suggested for further study.

- A replication of the present study should be conducted that includes a larger sample size to determine if a greater number of participants will produce different results.
- 2. A replication of this study should be conducted over a longer period of time to determine the impact of prolonged exposure to the *iPad* (Apple, 2010) on the learning and maintenance of academic concepts of students with ID.
- Further research should focus on the development of teacher training with regard to incorporating *iPad* (Apple, 2010) technology into instruction for students with ID.
- Additional research should be conducted with younger (i.e., primary grades) students with ID to determine effective strategies (e.g., guided access, training, accessibility) that can enhance the use of *iPad* (Apple, 2010) technology for this age and disability group.
- 5. A replication of the present study should be conducted focusing on controlling cognitive disparity across groups to determine if there is a difference between the acquisition and maintenance of academic skills, engagement, and work completion between IQ scores.
- 6. Further research should be conducted to collect more concrete and quantitative student engagement data (i.e., frequency of interactions with

technology and curriculum). The *ULS* (n2y, 2013) curriculum could feasibly incorporate this feature into the curriculum design. This will enhance the curriculum and allow for both researchers and teachers to examine student engagement more thoroughly.

Summary

Access to general education curricula is essential to the academic achievement of students with intellectual disabilities (ID) and mandated by federal law (IDEA, 2004; NCLB, 2001; Soukup et al., 2007). Though an academic instructional focus is rarely observed in self-contained special education classrooms (Browder et al., 2006), research suggests that both adapted curricula and cognitively accessible technology can support the learning limitations of students with ID (Palmer et al., 2012). This study incorporated academic instruction using *iPads* (Apple, 2010) to determine effective methods for teaching children with intellectual disabilities academic concepts aligned to the Common Core State Standards (CCSS).

Results of this study demonstrated that the use of the *iPad* (Apple, 2010) enhances the learning experience for students with ID with regards to work completion and engagement. This study also demonstrated that students with ID are able to participate appropriately in grade-aligned academic instruction. Further, this study highlighted the use of the *ULS* (n2y, 2013) curriculum for students with ID. Suggestions for expansion of the design of this curriculum include incorporating a learnerengagement feature in which interactions with the curriculum are counted for further

analysis. This feature would quantify student engagement data, a task that would provide teachers of students with ID valuable learning information.

This study contributes to the research in that it appears to be one of the first studies designed to measure the impact of the *iPad* (Apple, 2010) on the learning of students with ID. The present study lays the foundation for further research into providing access to both *iPad* (Apple, 2010) technology and adapted curricula aligned to general education curricula for this population. This access will allow students with ID to participate in more rigorous and academically-focused curricula and will ultimately enhance their educational success.

APPENDIX A

ULS and n2y Copyright Permission



November 21, 2013

n2y PO Box 550 Huron, OH 44839

Dear John Standal:

I am completing a doctoral dissertation at the University of Nevada, Las Vegas entitled Exploring Cognitively Accessible Academic Lessons for Students with Intellectual Disabilities Using the *iPad*. I would like your permission to use lessons, materials, and assessments from the Unique Learning System and News-2-you newspaper.

The requested permission extends to any future revision and editions of my dissertation including non-exclusive rights in all language and to the prospective publication of my dissertation by ProQuest Information and Learning (ProQuest) through its UMI® Dissertation Publishing business. ProQuest may produce and sell copies of my dissertation on demand and may make my dissertation available for free internet download at my request. These rights will in no way restrict republication of the material in any form by you or by others authorized by you. Your signing of this letter will also confirm that you own [or your company owns] the copyright to the above-described material.

If these arrangements meet with your approval, please sign the letter where indicated below and return it to me at the address below. Thank you very much.

Sincerely, Jamie Gunderson Assistive Technology Services 2551 Vegas Dr. Las Vegas, NV 89106

PERMISSION GRANTED FOR THE USE REQUESTED ABOVE:

John Standall

Date:

APPENDIX B

Pre, Post, and Maintenance Assessment
Grade Band: Elementary Unit Target: Physical Science Unit Topic: Paper, Rock, Scissors Unit 22 Unique GPS Level 1 Checkpoints Unique Learning System Elementary Level 1 Checkpoints Score Sheet Student Name: ____ Date: ____ This score sheet is provided for teachers who do not complete the checkpoints online. After the score sheet is completed, the results may be entered online into the Unique GPS in order to track student scores. automs avoids. Scoring instructions: The student will have two attempts to answer each question. On the student's first attempt, indicate if they responded to the stimulus question by circling Yes or No in the "Responded" column. If the student responded, circle the response given in the "Answer Given" Column. If the student's response is correct, drog down to the second attempt and indicate that a second attempt was needed by circling Yes in the "Attempt Meede" Column. On the student's first attempt, they did nt responded with an incomet answer, indicate a second attempt was needed by circling Yes in the "Attempt Meede" Column. Che the student's first attempt, they did nt responded with an incomet results in the full-tipe CPS Levit 1 Checking in answer the corresponding north to receive scores and test performance interpretations. A notes tox is provided at the end of the assessment where prompting types and levels or other related information may be described. Item 1 Responded? Answer Given (record only if student responded) Attempt Needed? Yes / No a / b / c 1 Yes No 2 Yes / No Yes / No a / b / c Item 2 Answer Given (record only if student responded) Attempt Needed? Responded? 1 Yes / No Yes / No a / b / c Yes / No Yes / No a / b / c 2 Item 3 Answer Given (record only if student responded) Attempt Needed? Responded? 1 Yes / No Yes / No a / b / c 2 Yes / No Yes / No a / b / c © 2014 n2y ULS. March 2014 Unit 22 Unique GPS Level 1 Checkpoints Grade Band: Elementary Unit Target: Physical Science Unit Topic: Paper, Rock, Scissors Item 4 Answer Given (record only if student responded) Attempt Needed? Responded? 1 Yes / No Yes / No a / b / c 2 Yes / No Yes / No a / b / c Item 5 Answer Given (record only if student responded) Attempt Needed? Responded? 1 Yes / No Yes / No a / b / c 2 Yes / No Yes / No a / b / c Item 6 Answer Given (record only if student responded) Attempt Needed? Responded? 1 Yes / No Yes / No a / b / c a / b / c 2 Yes / No Yes / No Notes & Special Accommodations: © 2014 n2y ULS, March 2014

continue a:	ssessment after ir	correct responses.		Level 1 Checkpo	
Content, F	Reading and Math	ematics (Continue assessment on next page.)			
	Attempts	Teacher Prompt	Response Options (correct in bold)	Special Accommodations For students with vision, hearing, physical or communication impairments, special accommodation that are typically afforded during instruction may be applied to the administration of these checkpoints.	
ltem 1	Attempt 1	Present 3 pictures (with text). Lee has a rock. Who is Lee?	a. Lee	Response options may be presented verbally. No additional prompts.	
item i	Attempt 2 (If Needed)	Present 2 pictures (with text). Who is Lee?	c. mouse	Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
	Attempt 1	Present 3 pictures (with text). Lee keeps his rock in his bedroom. Where does Lee keep his rock?	a. umbrella	Response options may be presented verbally. No additional prompts.	
item 2	Attempt 2 (If Needed)	Present 2 pictures (with text). Where does Lee keep his rock?	c. bedroom	Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
ltor: 3	Attempt 1	Present 3 pictures (with text). Fire begins with the letter f. Find the fire.	a. fire	Response options may be presented verbally. No additional prompts.	
item 3	Attempt 2 (if Needed) Present 2 pictures (with text).		c. vet	Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
2014 n2y LS, March 20	Attempt 2 (If Needed) 14	Present 2 pictures (with text). Find the fire.		Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
2014 n2y LS, March 20 Grade Band Init Target: Init Topic: F Continue a:	Attempt 2 (If Needed) 14 : Elementary Physical Science aper, Rock, Sciss ssessment after in	Present 2 pictures (with text). Find the fire.		Ad verbal, gestual or physical prompts. Score 0 if no response or refuses to respond.	
2014 n2y LS, March 20 Grade Band Init Target: Init Topic: F Continue a: Content, F	Attempt 2 (If Needed) 14 : Elementary Physical Science Paper, Rock, Sciss ssessment after in Reading and Math	Present 2 pictures (with text). Find the fire. sors coorrect responses. ematics (confinued)		Adi versi gestual or physical prompts. Score D if no response or refuses to respond.	
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Iten 2014 ray rade Band Ek rade Band Ek rade Band Ek rade Band Ek Rem 1 Item 1 Item 2 Item 3 Item 4	m 6 mentary color Science r, Rock, Scie	a / b / c / no response rs ical Science: Sort and describe objects and m Teacher Prompt tures (with text), k. He tota about its color, abit about size, the state about its color, the a color? re of Lewith a rock and a ball, resc, and a ball its mored rock and a ball its mored resc, and a ball and her dad, out the old the fire?	ternals according to r ternals accordin	acognizable properties nse Options est in bold) oth round. aste good. hit heavy. in the abook. ange to ash.	st; observe changes in materials. Special Account For students with vision, hearing impairments, special accommodations instruction may be applied to the adm Response options may be presented vi Response options may be presented vi	Unit Unique G Level 2-3 Checkpoir physical or communication that are byocally afforded durin initiation of these checkpoints erbaily. erbaily. erbaily. erbaily.



Content Understanding Item 3		
teddy bear	book	pillow
02014 ay ULS, Meth 2014		ELEM, Unit 22, Physical Science, Paper, Rock, Scass Unique GPS, Lewi 2-3 Onedgor
Item 4		
They	are both round.	
They	both taste good.	
They	are both heavy.	
0 2014 n2y		ELEM, Unit 22, Physical Science, Paper, Rock, Scisso

it 22, Physical Science, Paper, Rock, Scis Unique GPS, Level 2–3 Checkpc



onunae a.	ssessment after ir	correct responses.			
Content, F	Reading and Math	matics (Continue assessment on next page.)			
	Attempts	Teacher Prompt	Response Options (correct in bold)	Special Accommodations For students with vision, hearing, physical or communication impairments, special accommodation that are typically afforded during instruction may be applied to the administration of these checkpoints.	
Item 1	Attempt 1	Present 3 pictures (with text). Betsy is dancing. Who is Betsy?	a. Betsy	Response options may be presented verbally. No additional prompts.	
Item 1 Attempt (If Neede	Attempt 2 (If Needed)	Present 2 pictures (with text). Who is Betsy?	c. wagon	Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
h 0	Attempt 1	Present 3 pictures (with text). Betsy dances on the playground. Where does Betsy dance?	a. door	Response options may be presented verbally. No additional prompts.	
item 2	Attempt 2 (If Needed)	Present 2 pictures (with text). Where does Betsy dance?	c. playground	Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
Item 2	Attempt 1	Present 3 pictures (with text). Feather begins with the letter f. Find the feather.	a. feather	Response options may be presented verbally. No additional prompts.	
nem o	Attempt 2 (If Needed) Present 2 pictures (with text). Find the feather.		c. bed	Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
2013 n2y LS, March 20	(if Needed)	ring me wanner.		Score 0 if no response or refuses to respond.	
2013 n2y LS, March 20 irade Band init Target: init Topic: I continue a:	(IT Needed) 13 Intermediate Physical Science dake It Move ssessment after in	ring me isamer.		Score D if no response or refuses to respond. Un Unique C Level 1 Checkpo	
2013 n2y LS; March 20 irade Band Init Target: init Topic: I continue a: Content, F	(IT Needed) 13 13 13 13 13 13 13 13 13 13	ring me reamer.		Score D if no response or refuses to respond.	
2013 n2y LS, March 20 irade Band init Target: init Topic: I continue a: Content, F	(IT NEEDED)	correct responses. matter (continued) Teacher Prompt	Response Options (correct in bold)	Score D if no response or refuses to respond.	
2013 n2y LS, March 20 irrade Band init Target: nit Torpic: I continue a:	(IT NEODO) III III IIII IIII IIIIIIIIIIIIII	correct responses. matics (continued)	Response Options (correct in bold)	Score 0 if no response or refuses to respond. Un Unique C Level 1 Checkpo Special Accommodations For students with vision, hearing, physical or communication impainments, special accommodation that are typical valided during struction may be applied to the administration of these checkpoints. Response options may be presented verbally. No additional prompts.	
2013 n2y (S.S. March 20 rrade Band niti Target arget Content, F Item 4	(IT Needed) II III IIII IIIIIIIIIIIIIIIIIIIII	Find the Heamer. connect responses. matics (continued) Fresent 3 pictures (with text). Present 2 pictures (with text). What will Jacob do?	Response Options (correct in bold) a. make b. push c. help	Score 0 if no response or refuses to respond.	
2013 n2y LS, March 20 irade Band init Target Content, F Item 4	(IT Needed) Intermediate Physical Science date It Move date It Move Reading and Math Attempt 1 Attempt 2 (IT Needed) Attempt 1	Find the Heamer: correct responses. mattics (continued) Fresent 3 pictures (with text), Jacob will push the cart. What will Jacob do? Present 2 pictures (with text), Present 3 pictures (no text), Emily has 8 books. Show me 8 books.	Response Options (correct in bold) a. make b. push c. help b. Zhons	Score 0 if no response or refuses to respond.	
2013 n2y irade Band iral Target: It Target: Content, F Item 4 Item 5	(If Needed) Itermediate Physical Science date It Move sessesment after in Reading and Math Attempt 1 Attempt 2 (If Needed) Attempt 2 (If Needed)	Find the Heamer: correct responses. matics (continued) Fresent 3 pictures (with text), Jacob will push the cart. What will Jacob do? Present 3 pictures (with text), What will Jacob do? Present 3 pictures (no text), Emily has 8 books. Show me 8 books. Present 2 pictures (no text). Show me 8 books.	Response Options (correct in bold) a. make b. push c. help a. Togs c. Togs c. Trace cars	Score 0 if no response or refuses to respond.	
2013.np; irade Band irirade Band init Targer. F Content, R Item 4	(IT Needed) Itermediate Physical Science lake It Move Assessment after in Attempts Attempt 1 Attempt 2 (IT Needed) Attempt 1 Attempt 2 (IT Needed) Attempt 1	Product Responses. correct responses. matics (continued) Present 3 pictures (with text). Present 3 pictures (no text).		Score 0 if no response or refuses to respond.	







	e it move	Unique Learning Syste	em Intermediate L	evel 2–3 Checkpoints	Level 2-	3 Checkpoin
tudent Name: his score shee udent scores.	t is provided for t	teachers who do not complete the checkpoints on	ine. After the score	sheet is completed, the re	Date: sults may be entered online into the Unique GPS in ord	der to track
Content Un	derstanding			Notes & Special A	ccommodations	
		Answer (circle one)				
Ite	m 1	a / b / c / no response				
lte	m 2	a / b / c / no response				
Iter	m 3	a / b / c / no response				
Ite	m 4	a / b / c / no response				
Iter	m 5	a / b / c / no response				
Ito						
2014 n2y LS, March 2014	m 6	a / b / c / no response				
rade Band: Int nit Target: Phy nit Topic: Mak	ermediate sical Science e It Move	a / b / c / no response			Level 2-	Unit Unique GF 3 Checkpoin
rade Band: Ini nit Target: Phy nit Torgic: Mak Content Unde	ermediate sical Science e It Move	a / b / c / no response			Level 2-	Unit Unique GF 3 Checkpoin
rade Band: Ini rade Band: Ini nit Target: Phy nit Topic: Mak	ermediate rstar/Science e It Move rstanding/Phys	a / b / c / no response	Resg (ca	onse Options mect in bold)	Level 2- Special Accommodations For students with vision, hearing, physical or com impairments, special accommodations that are typ during instruction may be applied to the administra during instruction may be applied to the administra	Unit Unique GF 3 Checkpoin nmunication nmunication of these
rade Band: Int Int Target Phy Int Topic: Mak Content Unde	ermediate saical Science It Move Safay and hard What do they	a / b / c / no response ical Science: Describe the motion of objects. Teacher Prompt tures (with text), filmids can dance. do when they dance?	a. est b. rest c. move	ionse Options rect in bold)	Level 2- Special Accommodations For students with vision, hearing, physical or con- impairments, special accommodations that are typ during instruction may be applied to the administra checkpoints. Response options may be presented verbally.	Unit Unique GF 3 Checkpoin munication incally afforded ation of these
rade Band: Int Is, March 2014 rade Band: Int nit Target: Phy nit Topic: Mak Content Unde Item 1 Item 2	ermediate sical Science to Move rstanding/Phys Present 3 pic Betsy and her What do they What do they	a / b / c / no response ical Science: Describe the motion of objects. Teacher Prompt thinds can dare. do whan they dance? tunes (with best). Theods more than includes. bodies need to move?	a. est b. rest c. move a. friends b. energy c. gas	onse Options rect in bold)	Level 2- Special Accommodations For students with vision, hearing, physical or con- impairments, special accommodations that are typ during instruction may be applied to the administra checkpoints. Response options may be presented verbally. Response options may be presented verbally.	Unit Unique GF 3 Checkpoin nmunication rically afforded ation of these
2014 n2y 2014 n2y rade Band: Inhi nit Target. Phy nit Topic: Mak Content Unde Item 1 Item 2 Item 3	ermediate sical Science it Move rstanding/Phys Betsy and her What do they Present 3 pic Betsy and her What do they Pasty and her Betsy and her	a / b / c / no response ical Science: Describe the motion of objects. Teacher Prompt tures (with text), friends and name, do when they dance? tures (with text), friends and name, bodies need to move? tures in the hard, bodies need to move? tures with text), friends and and the hard, bodies need to move?	a. exit b. resi b. energy c. gas a. shiny b. feat c. cold	onse Options meet in bold)	Level 2- Special Accommodations For students with vision, hearing, physical or con impairments, special accommodations that are typi during instruction may be applied to the administra checkpoints. Response options may be presented verbally. Response options may be presented verbally. Response options may be presented verbally.	Unit Unique GF S Checkpoin mmunication and y affordes
rate Band : In 2014 n2y rate Band : In It Target: Pack Content Unde Item 1 Item 2 Item 3 Item 4	ermediate rate and a second	a / b / c / no response ical Science: Describe the motion of objects. Teacher Prompt tutures (with bast). Thomas none their hodies. bodies need to move? the objects. Transfer for any different ways. way they can public bast). Transfer for any different ways. way they can public bast). Transfer for any different ways. way they can public bast). Transfer for any different ways. way they can public bast). Transfer for any different ways. way they can public bast). Transfer for any different ways. way they can public bast). Transfer for any different ways. way they can public bast). Transfer for any different ways. Ways the can public base of public base of public base.	a. eat b. reat b. reat c. movie b. energy C. gas a. friends b. energy C. gas a. shiry b. fast c. robity b. putting bug b. putting bug b. putting ador	onse Options rect in bold) of war ok on a sheff scholl	Level 2- Special Accommodations that are physical or impairments, special accommodations that are physical during instruction may be applied the administra checkpoints. Response options may be presented verbally. Response options may be presented verbally. Response options may be presented verbally. Response options may be presented verbally.	Unit Unique GF de 3 Checkpoin Immunication of these
Letter 2014 and 2014	Image: Second Seco	a / b / c / no response kcal Science: Describe the motion of objects. Teacher Prompt tures (with text), frinds can dance, do what they dance? tures (with text), frinds more the bic boles. bodies need to move? tures (with next), frinds more and the mady different ways. ay they can move? tures (with next), frinds move the bic boles. bodies need to move? tures (with next), frinds move the bic boles. bodies need to move? tures (with next), frinds move the bic boles. bodies need to move? tures (with next), frinds move the bic boles. bodies need to move? tures (with next), frinds move the bic boles. bodies need to move? tures (with next), frinds move the bic boles. bodies need to move? tures (with next), frinds move the bic boles. bodies need to move? the second	a. eat b. rest c. cod a. finds b. fast c. odd diming abo c. negrag ado c. negrag ado c. codd c. c	onse Options rect in bold) of war sk on a shelf rebeil xuld stay the same. xuld stay the same. suld brack.	Level 2- Special Accommodations For students with vision, hearing, physical or con impairments, special accommodations that are typ doing instruction may be presented verbally. Response options may be presented verbally.	Uniti Unique GF S Checkpoin munication atom of these





item o	
The truck would stay the same.	
The truck would break.	
The truck would move.	
2014 sty 2014 sty 2014 day	INT, Unit 22, Physical Science, Make It N Unique GPS, Level 2–3 Checkpr
Content Understanding	
Item 6	
Item 6	
Running is better than walking.	
Running is slower than walking.	
Running is slower than walking. Running is faster than walking.	



Continue as	ssessment after in	correct responses.			
Content, R	Reading and Mathe	matics (Continue assessment on next page.)			
	Attempts	Teacher Prompt	Response Options (correct in bold)	Special Accommodations For students with vision, hearing, physical or communication impairments, special accommodatior that are typically afforded during instruction may be applied to the administration of these checkpoints.	
ltem 1	Attempt 1	Present 3 pictures (with text). Jonah is washing dishes. Who is Jonah?	a. cat	Response options may be presented verbally. No additional prompts.	
	Attempt 2 (If Needed)	Present 2 pictures (with text). Who is Jonah?	c. grandma	Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
Itom 2	Attempt 1	Present 3 pictures (with text). Jonah makes cookies in the kitchen. Where does Jonah make cookies?	a. kitchen	Response options may be presented verbally. No additional prompts.	
ACTIN 2	Attempt 2 (If Needed)	Present 2 pictures (with text). Where does Jonah make cookies?	c. store	Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
Itom 2	Attempt 1	Present 3 pictures (with text). Jonah bakes a cookie. Find the cookie.	a. book	Response options may be presented verbally. No additional prompts.	
item 5	Attempt 2 (Il Needod) Find the cooke.		c. cookie	Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
0 2014 n2y ILS, March 20	Attempt 2 (If Needed)	Present 2 pictures (with text). Find the cooke.		Ad vehal, gestual or physical prompts. Score 0 if no response or refuses to respond.	
9 2014 n2y ILS, March 20 Grade Band Jnit Target: Jnit Topic: I: Continue as	Attempt 2 (If Needed) 14 : Middle School Physical Science s It Hot? Is It Colo ssessment after in	Present 2 pictures (with text). Find the cooke. 20 20 20 20 20 20 20 20 20 20 20 20 20		Ad verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
2014 n2y ILS, March 20 Grade Band Jnit Target: Jnit Topic: I: Continue as Content, F	Attempt 2 (If Needed) 14 : Middle School Physical Science s It Hot? Is It Colo ssessment after in Reading and Mathe	Present 2 pictures (with text). Find the cookie. 17 correct responses. mattice (continued)		Ad verbal, gestual or physical prompts. Score 0 if no response or refuses to respond.	
2014 n2y ILS, March 20 Srade Band Jnit Target: Init Topic: In Continue as Content, R	Attempt 2 (If Needed)	Present 2 pictures (with text). Find the cooke.	Response Options (correct in boid)	Ad versil, gestual or physical prompts. Score 0 if no response or refuses to respond. Unique t Level 1 Checkpor For students with vision, hearing, physical or communication impairments, special commodations that an typically afforded during instruction may be applied to the administration of the exclements	
2014 n2y ILS, March 20 Srade Band Jnit Target: Jnit Topic: I: Continue as Content, R	Attempt 2 (If Needed)	Present 2 pictures (with text), Find the cookie.	Response Options (correct in bold) a. walk b. popur	Ad webal, gestaral or physical prompts. Score 0 if no response or refuses to respond. Unique I Level 1 Checkport Special Accommodations For students with vision, hearing physical or communication imgainments, special accommodations that are hypothyl diroded during interfactor may be applied to the administration of these checkpoints. Response options may be presented verbally. Ne additional prompts.	
2014 n2y 2014 n2y 2014 n2y 3rade Band Init Target: Init Topic: Init Topic: Ini	Attempt 2 (If Needed)	Present 2 pictures (with text), Find the cookie. Present 2 pictures (with text), Present 3 pictures (with text), Jonah pours the juice into cups. What does Jonah do? Present 2 pictures (with text), What does Jonah do?	Response Options (correct in bold) a. walk b. pour c. read	Ad verbal, gestaral or physical prompts. Score 0 if no response or refuses to respond. Unique i Level 1 Checkport Special Accommodations For students with vision, hearing, physical or communication impairments, special accommodation that are hypothyl active data and a study of the study applied to the administration of these checkponts. Response options may be presented verbally. No additional prompts. Score 0 if no response or refuses to respond.	
2014 n2y LLS, March 20 Sinde Band Init Target: Init Topic: It Content, R Item 4	Attempt 2 (If Needed)	Present 2 pictures (with text), Find the cookie, correct responses, correct responses, matics (continued) Present 3 pictures (with text), Jonah pours the juice into cops, What does Jonah do? Present 3 pictures (with text), What does Jonah do? Present 3 pictures (no text), Jonah eats 2 cookies, Bhow me 2 cookies.	Respons Options (correct in bold) a. walk b. pour c. read a. Z cookies b. 4 shoes	Ad what, gestaria or physical prompts. Score 0 if no response or refuses to respond. Unger + Level 1 Checkport Special Accommodations For students with vision, hearing, physical or communication impairments, special accommodations applied to the administration of these checkports. Response options may be presented verbally. No additional prompts. Score 0 if no response or refuses to respond. Response options may be presented verbally. No additional prompts.	
2 2014 n2y LS, March 20 Grade Band Init Target: Init Topic: In Continue at Content, R	Attempt 2 (If Needed)	Present 2 pictures (with text), Find the cookie, correct responses. matics (continued) Teacher Prompt Present 3 pictures (with text), Jonah pours the juice into cups. What does Jonah do? Present 3 pictures (with text), Jonah sets 2 cookies. Show me 2 cookies. Present 2 pictures (no text), Jonah sets 2 cookies.	Response Options (correct in bold) a. walk b. pour c. read a. 2 cookies c. 1 flower	Ad wrbal, gestural or physical prompts. Score 0 if no response or refuses to respond. Unque i Level 1 Checkpol Special Accommodations For students with vision, Asaring, physical or common state of the student of these checkpoles. Response options may be presented verbally. Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond. Response options may be presented verbally. No additional prompts. Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond. Add verbal, gestural or physical prompts. Score 0 if no response or refuses to respond.	
Spade Band Init Target: L Content, R Item 4	Attempt 2 (If Needed)	Present 2 pictures (with text), Find the cookie. 7 7 7 7 7 7 7 7 7 7 7 7 7	Response Options (correct in bold) a. walk b. pour c. read a. 2 cookles c. 1 Sover	Ad what, gestural or physical prompts. Score 0 if no response or refuses to respond. Ungest Level 1 Checkport Communications (Section 2014) Communications (Section 2014) Communications (Section 2014) Communications (Section 2014) Communications (Section 2014) Communications (Section 2014) Communications (Section 2014) Response options may be presented verbally. No additional prompts. Score 0 if no response or refuses to respond. Response options may be presented verbally. No additional prompts. Score 0 if no response or refuses to respond. Response options may be presented verbally. No additional prompts. Score 0 if no response or refuses to respond. Response options may be presented verbally. No additional prompts. Score 0 if no response or refuses to respond. Response options may be presented verbally. No additional prompts. Score 0 if no response or refuses to respond.	





Mathematics Item 5		
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Mathematics Item 6		
3	4	2
© 2014 sty U.S. Mart 2014		MDDLE, UH1 22, Physical Science, is 1Hcf1 is 1Cod? Utiget DPS, Lowit 1D indoponis

		Unique Learning System	Middle S	ichool Level 2–3 Checkpoints Sco	re Sheet	Level 2-5 Glieckpoin
tudent Name:					Date:	
his score sheet is p ludent scores.	provided for teache	rs who do not complete the checkpoints onlin	. After ti	e score sheet is completed, the results	may be entered online into the Unio	que GPS in order to track
Content Under	rstanding			Notes & Special Accor	modations	
	lotaning				inioudiona	
		Answer (circle one)				
ltem 1		a / b / c / no response				
Item 2	:	a / b / c / no response				
ltem 3		a / b / c / no response				
ltem 4	+	a / b / c / no response				
ltem 5	;	a / b / c / no response				
ltem 6	i	a / b / c / no response				
2014 n2y LS, March 2014						
2014 n2y .S. March 2014 rade Band: Middle nit Target: Physica	e School al Science					Unit Unique Gf
2014 n2y .S, March 2014 rade Band: Middle nit Target: Physica nit Topic: Is It Hot? Content Understa	e School al Science ? Is It Cold? anding/Physical S	clince:				Unit Unique Gf Level 2–3 Checkpoir
2014 n2y IS, March 2014 rade Band: Middle nit Target: Physica nit Topic: Is It Hot? Content Understa I dentify ways Explore applic	e School I/ Science ? Is it Cold? anding/Physical S anding/Physical S anding of state of n	cience: Isfered (elctrical energy to light, sound, etc.)	s in real-	world situations.		Unit Unitagia Gf Level 2-3 Checkpoin
2014 n2y IS, March 2014 rade Band: Middle nit Target: Physica nit Topic: Is It Hot? Content Understa Identify ways I Explore applic	s School If Science ? Is it Cold? anding/Physical S that energy is trans- ations of state of r	cience: Isfered (electrical energy to light, sound, etc.) antiter, including physical and chemical chang Teacher Prompt	is in real-	world situations. Response Options (correct in bold)	Special Accor For students with vision communication impairments, as are typically afforded during in the the administration of t	Unit: Unique Gi Level 2-3 Checkpoir modations hearing.physical or occial accommodators th struction may be applied struction may be applied
2014 Agy rade Band: Middle Init Target Physica Int Target Physica Content Understan Identify ways to Explore applic	e School M Science 7 Is It Cold? anding/Physical S Mate nergy is small flat energy is small flat energy is small flat and small sciences (orah bakes sugar Where does he bak	cience: dirented (electrical energy to light, sound, etc.) antiter, including physical and chemical chang Teacher Prompt (with text), cookes. e the cookies?	is in real-	world situations. Response Options (correct in bolt) oven arefrigrator are conditioner	Special Accord For students with vision, communication impairments, sp are symptements of the Bre administration of the Response options may be present	Unit: Unitage Gf Level 2-3 Checkpoin modations hearing, physical or aecial accommodators the hear dheckpoints. hear dheckpoints.
Trade Band: Middle nit Target: Physica nit Target: Physica nit Topic: Is It Hot? I clentify ways I clentify ways I them 1 Item 1 Item 2 Item 2 Item 2	s School If Science Anding/Physical S that energy is tran- ations of state of r Present 3 pictures Present 3 pictures Present 3 pictures Present 3 pictures	cience: cience: ferred (elctrical energy to light, sound, etc.) Teacher Prompt (with text), cookes. e the cookies? (with text), te hot or cold, perature?	a. b. c. a. b. b. c.	world situations. Response Options (correct in bold) oven refligerator ruler thermoneter refligerator	Special Accor For students with vision, communication impairments, are typically afforded during in the administration of r Response options may be prese Response options may be prese	Unit Unitage GF Level 2-3 Checkpoin modations hearing, physical or hearing, physical or hear checkpoint. Inter other physical net other physical n
2014 dy s.S. Mach 2014 rade Band: Middle int Target: Physica Itarget: Physica Ita	a School IS Science IS Science Is It Cold? Anding/Physical S Andine Science Present 3 pictures Consh Dates sugar Present 3 pictures Informa doss the Just Present 3 pictures Informational Information Present 3 pictures Information Information Present 3 pictures Information Information Present 3 pictures	clence: sfemsel (electrical energy to light, sound, etc.) natter, including physical and chemical chang Teacher Prompt (with text), cookies. e the cookies? (with text), e hot or cooki. perature? (with text), in cops in the freezer. do?	a. b. c. a. b. c. b. c. c.	world situations. Response Options (correct in bold) oven air conditionee air conditionee air conditionee thermometer refigerator heal weater freeze	Special Accor For students will vision communication impairments; a me typically afforded uning in the administration of t Response options may be press Response options may be press Response options may be press	Uniti Unique Gf Level 2-3 Checkpoin Indexing physical or oscial accommodations the heating physical or oscial accommodations the heate checkpoints. Inted verbally.
2014 rdy s.s. Mach 2014 Trade Band. Middle Int Target. Physica Int Toget. Physica Int Toget. In Not Content Understring Item 1 P. Item 1 P. Item 3 P. Item 3 P. Item 4 P. Item 4 P. Item 4 Item 4	 School M School Ye k Cold? It K Cold? It K Cold? It an ency is team and that encry is team and that encry is team and that encry is team and resent 3 pictures It and the super and that measures that in a super and that is a super and the pice and that is a super and the pice and the and the pice and the pice and the and the pice a	cience: cience: ferred (elctrical energy to light, sound, etc.) anter, including physical and chemical chang Teacher Prompt (with text), cookes. le the cookies? (with text), te hot or codi. perature? (with text), te hot or codi. perature? (with ret), te hot or codi. perature? (with ret), set or experiments. the freezer. do?	Is in real a. b. c. a. b. c.	world situations. Response Options (correct in bold) oven refigerator refigerator ruler refigerator ruler ruler indenometer refigerator inden water irreze water irreze indown eat fruit	Special Accor For students with vision, communication impairments, sa are typically adred during in the administration of t Response options may be prese Response options may be prese Response options may be prese	Unit: Level 2-3 Checkpoir Imodations hearing, physical or becal accommodators applied to bee checkpoints. Inted verbally. Inted verbally.
2014 rky racke Band: Middlen Ini Target - Physica Ini Target - Physica Ini Target - Rit Host Itarget - Physica Reem 1 J Item 2 P Reem 3 J Item 4 P J J Item 4 P	School Science Sc	clinne: inferred (electrical energy to light, sound, etc.), nater, including physical and chemical chang Teacher Prompt (with text), cookes. the cookes? (with text), he to or sold. be to or sold. the for excert. (with text), in cups in the freezer. do? sun. Sentences with pictures. Sentences (no pictures), Heave So out of the freezer. Loss out of the freezer.	is in real- a. b. c. a. b. c.	world situations. Response Options (correct in bold) oven correct in bold) oven correct in bold) ven conditioner refligerator refligerator refligerator refligerator refligerator refligerator refligerator The ice will fall.	Special Accor For students with vision communication impairments, si are typically afforded uning in the administration of Response options may be prese Response options may be prese Response options may be prese Response options may be prese	Uniti Unique Gf Level 2-3 Checkpoin Instaling, physical or oscial accommodations the hear of physical or oscial accommodations the hear checkpoints. Inted verbally. Inted verbally. Inted verbally.

Content Understanding Item 1		
oven	refrigerator	air conditioner
0.2014 rdy ULS, March 2014		MDDLE, Lini 12, Physical Science, Is 11 Hor? Is 11 Cot Unique GPB, Level 2-3 Checkport
Content Understanding Item 2		
ruler	thermometer	refrigerator



	Understanding
The	ice will fall.
The	ice will melt.
The	ice will stay frozen.
2014 n2y LS, March 2014	MOOLE, Unit 22, Physical Science, Is 1 Hor? a T Unique GPR, Lowit 2-1 Onadop
Content Item 6	Understanding
Kee	p the cans in a paper bag.
Kee	p the cans near the campfire.
Kee	p the cans in a cooler with ice.

APPENDIX C

Work Completion Checklist

Work Completion Checklist

Student	Game Page	Review Page	Puzzle Page	Sudoku Page	Think Page	Total

Directions: Copy all students to the checklist. Record with a \checkmark the completed News-2-you worksheets for the week. At the end of each week, tally and record the total number of completed worksheets.

APPENDIX D

Teacher Perceptions of Engagement Survey

altrics Survey Software	1/4/14, 8:09 PM
ease provide the following information:	
Teacher ID #	
Rate your students' level of engagement in ULS (n2y, 2013) lessons:	
on engagement during lessons	
adequate engagement during lessons	
total engagement during lessons	
Rate your students' level of engagement during assessments:	
no engagement during lessons	
 adequate engagement during lessons 	
O total engagement during lessons	
Rate your students' level of independence in completing News-2-you (2013) worksheets:	
one to one assistance required	
 ○ frequent assistance required 	
no assistance required, independent	
	Page 1 of

APPENDIX E

Student Attitudes and Beliefs Questionnaire





APPENDIX F

Parent Informed Consent



Department of Education and Clinical Studies

TITLE OF STUDY: Exploring Cognitively Accessible Academic Lessons for Students with Intellectual Disabilities Using the iPad

INVESTIGATOR(S): Kyle Higgins and Jamie Gunderson

CONTACT PHONE NUMBER: For questions or concerns about the study, you may contact Kyle Higgins at 895-3205

Purpose of the Study

Your child is invited to participate in a research study. The purpose of this study is to research the learning effects of traditionally based academic instruction and academic instruction using the iPad (Apple, 2010) on the teaching and learning of elementary and middle school students with intellectual disabilities.

<u>Participants</u> Your child is being asked to participate in the study because his or her teacher has agreed to use a portion of class instruction to support this study. Your child is either in a classroom that will receive instruction with the use of an iPad (Apple 2010) at the start of this study, or a classroom that will receive the same instruction without an iPad at the start of this study. After the study, all students will be provided an opportunity to use the iPad (Apple, 2010) technology.

Procedures

A portion of your child's normal classroom instruction has been modified as a result of the teacher's choice to participate in this study. If you allow your child to volunteer to participate in this study, your child will take one assessment of their academic content knowledge before and one assessment after the study instruction for a total of two assessments. The work that your child completes during instruction time will also be provided to researchers for analysis.

Benefits of Participation

There may be direct benefits to your child as a participant in this study, such as an increase in their academic content knowledge. However, we hope to learn which type of instruction increases student knowledge acquisition and knowledge maintenance.

Risks of Participation There are risks involved in all research studies. This study may include only minimal risks. This study involves the unobtrusive observation of teachers via videotape. Because of this, there are minimal risks to teachers from participation. Minimal risks include breach of confidentiality, however numerous steps will be taken to prevent this.

Participant Initials

1 of 2

Approved by the UNLV IRB. Protocol #1401-4688M Received: 03-04-14Approved: 03-06-14Expiration: 03-05-15
Disabilities Using the <i>iPad</i>	
<u>Cost /Compensation</u> There will be no financial cost for your child to participa in your child's classroom during the typical school day. time.	ate in this study because instruction will occu Your child will not be compensated for their
Contact Information If you or your child have any questions or concerns abou 895-3205. For questions regarding the rights of research regarding the manner in which the study is being conduc Research Integrity – Human Subjects at 702-895-279 IRB@unlv.edu.	ut the study, you may contact Kyle Higgins a h subjects, any complaints or comments cted you may contact the UNLV Office of 14, toll free at 877-895-2794, or via email at
<u>Voluntary Participation</u> Your decision to allow your child to participate or not w receives by their teacher. Participation is completely vol participate, or withdraw at any time without consequenc participate, or withdraw early, then your child will not te knowledge assessment and your child's class work will a child are encouraged to ask questions about this study at study.	vill not change the instruction your child untary and you or your child may refuse to es. If you or your child decide not to ake the before and after academic content not be provided to researchers. You and your the beginning or any time during the researc
<u>Confidentiality</u> All information gathered in this study will be kept comp in written or oral materials that could link your child to t locked facility at UNLV for three years after completion information gathered will be destroyed.	bletely confidential. No reference will be mad this study. All records will be stored in a of the study. After the storage time the
<u>Participant Consent:</u> Thave read the above information and agree to allow my 18 years of age. A copy of this form has been given to r	y child to participate in this study. I am at lea ne.
Signature of Parent	Child's Name (Please print)
Parent Name (Please Print)	Date
	Participant Initials

APPENDIX G

Student Informed Assent







APPENDIX H

Teacher Informed Consent



INFORMED CONSENT

Department of Education and Clinical Studies

TITLE OF STUDY: Exploring Cognitively Accessible Academic Lessons for Students with

Intellectual Disabilities Using the iPad

INVESTIGATOR(S): Kyle Higgins and Jamie Gunderson

For questions or concerns about the study, you may contact Kyle Higgins at 895-3205.

For questions regarding the rights of research subjects, any complaints or comments regarding the manner in which the study is being conducted, contact the UNLV Office of Research Integrity – Human Subjects at 702-895-2794, toll free at 877-895-2794 or via email at IRB@unlv.edu.

Purpose of the Study

You are invited to participate in a research study. The purpose of this study is to research the learning effects of traditionally based academic instruction and academic instruction using the *iPad* (Apple, 2010) on the teaching and learning of elementary and middle school students with intellectual disabilities.

Participants

You are being asked to participate in the study because you fit the following criteria: You are a licensed special education teacher in a self-contained classroom for students with intellectual disabilities.

Procedures

If you volunteer to participate in this study, your classroom will be randomly assigned to one of two instructional groups (i.e., iPad, traditional teaching) and you will be asked to do the following: (a) participate in training sessions to learn how to administer lessons, (b) be videotaped while administering classroom lessons, (c) administer pre, post, and maintenance assessments, and (d) participate in assessment regarding your perceptions of student engagement. It is anticipated that the study will last for nine weeks.

Benefits of Participation

There may not be benefits to you as a participant in this study. We hope to learn which type of instruction increases student knowledge acquisition and knowledge maintenance.

Risks of Participation

There are risks involved in all research studies. This study may include only minimal risks. This study involves the unobtrusive observation of teachers via videotape. Because of this, there are minimal risks to teachers from participation. Minimal risks include breach of confidentiality, however numerous steps will be taken to prevent this.

Page 1 of 2

Approved by the UNLV IRB. Protocol #1401-4688M Received: 03-04-14Approved: 03-06-14Expiration: 03-05-15

TITLE OF STUDY: Exploring Cognitively Accessible Disabilities Using the <i>iPad</i>	Academic Lessons for Students with Intellectual
Cost /Compensation There will be no financial cost to you to participa classroom during the typical school day. The stud the study will last for nine weeks. In addition, 3 h not be compensated for your time.	te in this study because instruction will occur in your by will take 50 minutes per day, 5 days a week, and nours of training is required for participation. You wil
Confidentiality All information gathered in this study will be kep made in written or oral materials that could link y locked facility at UNLV for three years after con information gathered will be destroyed.	ot as confidential as possible. No reference will be you to this study. All records will be stored in a supletion of the study. After the storage time the
Voluntary Particination	
Your participation in this study is voluntary. You of this study. You may withdraw at any time wit encouraged to ask questions about this study at th <u>Participant Consent:</u> I have read the above information and agree to participant and the above information and agree to participant agree	may refuse to participate in this study or in any part hout prejudice to your relations with UNLV. You are he beginning or any time during the research study.
Your participation in this study is voluntary. You of this study. You may withdraw at any time wit encouraged to ask questions about this study at the Participant Consent: I have read the above information and agree to par questions about the research study. I am at least to me.	may refuse to participate in this study or in any part hout prejudice to your relations with UNLV. You are le beginning or any time during the research study. articipate in this study. I have been able to ask 18 years of age. A copy of this form has been given
Your participation in this study is voluntary. You of this study. You may withdraw at any time wit encouraged to ask questions about this study at th Participant Consent: I have read the above information and agree to pa questions about the research study. I am at least to me. Signature of Participant Participant Name (Please Print)	may refuse to participate in this study or in any part hout prejudice to your relations with UNLV. You are le beginning or any time during the research study. articipate in this study. I have been able to ask 18 years of age. A copy of this form has been given
Vour participation in this study is voluntary. You of this study. You may withdraw at any time wit encouraged to ask questions about this study at th Participant Consent: I have read the above information and agree to pa questions about the research study. I am at least to me. Signature of Participant Participant Name (Please Print) <u>Video Consent:</u> I agree to be audio or video taped for the purpose	may refuse to participate in this study or in any part hout prejudice to your relations with UNLV. You are le beginning or any time during the research study. Articipate in this study. I have been able to ask 18 years of age. A copy of this form has been given
Your participation in this study is voluntary. You of this study. You may withdraw at any time wit encouraged to ask questions about this study at th Participant Consent: I have read the above information and agree to pa questions about the research study. I am at least to me. Signature of Participant Participant Name (Please Print) Video Consent: I agree to be audio or video taped for the purpose Signature of Participant	may refuse to participate in this study or in any part hout prejudice to your relations with UNLV. You are le beginning or any time during the research study. articipate in this study. I have been able to ask 18 years of age. A copy of this form has been given

APPENDIX I

Teaching Fidelity Checklist

Lesson: #	Teacher ID: Class ID:		Rate	r Name: Date:
The teacherYesNoRater NotesSet up iPad to video-record the lesson.Whole Group ULS Lesson (15 minutes)Provided each student the proper materials for their differentiation level.Conducted ULS lesson (15 minutes).Outlined in the classroom activities section of each ULS lesson plan.Stayed within the 15-minute time limit for whole group instruction.Small Group Rotations (2-5 students; 3 groups X 10-minute)Provided each student a paper-copy of the News-2-you newspaper.Read the News-2-you newspaper aloud to the students.Instructed students to complete the News-2-you paper worksheets, 	Lesson: #			
Set up iPad to video-record the lesson. Whole Group ULS Lesson (15 minutes) Provided each student the proper materials for their differentiation level. Conducted ULS lesson (15 minutes). Outlined in the classroom activities section of each ULS lesson plan. Outlined in the classroom activities Stayed within the 15-minute time limit for whole group instruction. Small Group Rotations (2-5 students; 3 groups X 10-minute) Provided each student a paper-copy of the News-2-you newspaper. Read the News-2-you newspaper aloud to the students. Instructed students to complete the News-2-you paper worksheets, providing assistance as needed. Stayed within the 10-minute time limit for each group. Recorded any completed worksheets on the Worksheet Completion Checklist. Instructed Student checklist.	The teacher	Yes	No	Rater Notes
Whole Group ULS Lesson (15 minutes) Provided each student the proper materials for their differentiation level. Conducted ULS lesson (15 minutes). Outlined in the classroom activities section of each ULS lesson plan. Stayed within the 15-minute time limit for whole group instruction. Small Group Rotations (2-5 students; 3 groups X 10-minute) Provided each student a paper-copy of the News-2-you newspaper. Read the News-2-you newspaper aloud to the students. Instructed students to complete the News-2-you paper worksheets, providing assistance as needed. Stayed within the 10-minute time limit for each group. Recorded any completed worksheets on the Worksheet Completion Checklist. Total Yes Yes	Set up iPad to video-record the lesson.			
Provided each student the proper materials for their differentiation level.	Whole Group ULS	Lessor	ı (15 n	ninutes)
materials for their differentiation level. Image: Conducted ULS lesson (15 minutes). Image: Conducted ULS lesson activities Outlined in the classroom activities section of each ULS lesson plan. Image: Conducted ULS lesson plan. Stayed within the 15-minute time limit for whole group instruction. Image: Conducted ULS lesson plan. Image: Conducted ULS lesson plan. Stayed within the 15-minute time limit for whole group instruction. Image: Conducted ULS lesson plan. Image: Conducted ULS lesson plan. Small Group Rotations (2-5 students; 3 groups X 10-minute) Image: Conducted ULS lesson plan. Image: Conducted ULS lesson plan. Provided each student a paper-copy of the News-2-you newspaper. Image: Conducted ULS lesson plan. Image: Conducted ULS lesson plan. Read the News-2-you newspaper aloud to the students. Image: Conducted ULS lesson plan. Image: Conducted ULS lesson plan. Instructed students to complete the News-2-you paper worksheets, providing assistance as needed. Image: Conducted ULS lesson plan. Image: Conducted ULS lesson plan. Stayed within the 10-minute time limit for each group. Image: Conducted ULS lesson plan. Image: Conducted ULS lesson plan. Recorded any completed worksheets on the Worksheet Completion Checklist. Image: Conducted ULS lesson plan. Image: Conducted ULS lesson plan. Yes No Image: Conducted ULS lesson p	Provided each student the proper			
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News-2-you paper worksheets, providing assistance as needed.	Instructed students to complete the			
providing assistance as needed.	News-2-you paper worksheets,			
Stayed within the 10-minute time limit	providing assistance as needed.			
for each group. Image: Complete in the worksheets on the Worksheet Completion Checklist. Total Yes No	Stayed within the 10-minute time limit			
Total Yes No	for each group.			
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Total Yes No	the worksheet completion checklist.			
Yes No	Total			
		Yes	No	

Lesson: #YesNoRater NotesSet up iPad to video-record the lesson.Whole Group ULS Lesson (15 minutes)Provided each student the proper materials for their differentiation level via the <i>iPad</i> .Conducted ULS lesson (15 minutes). Outlined in the classroom activities section of each ULS lesson plan.Stayed within the 15-minute time limit for whole group instruction.Provided each student an <i>iPad</i> with <i>Guided Access</i> in the News-2-you app.Used the <i>iPad</i> (News-2-you app) to read the News-2-you newspaper aloud to the students.Instructed students to complete the News-2-you worksheets via the <i>iPad</i> , providing assistance as needed.
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Stayed within the 10-minute time limit for each group. Recorded any completed worksheets on the Worksheet Completion Checklist.
Total Yes No

APPENDIX J

School District Access Consent

STUDENT SERVICES DIVISION CLARK COUNTY 5100 W. SAHARA AVENUE • LAS VEGAS, NV 89146 • (702) 799-5472 SCHOOL DISTRICT BOARD OF SCHOOL TRUSTEES Carolyn Edwards, President Lorraine Alderman, Vicc President Deanna L. Wright, Clerk Erin E. Cranor, Member Clark County School District Student Support Services Division Chris Garvey, Member Patrice Tew, Member Dr. Linda E. Young, Member 5100 W. Sahara Avenue Las Vegas, Nevada 89146 Pat Skorkowsky, Superintendent Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility Dear Dr. Campbell and Members of the CCSD IRB Team: This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad in the Clark County School District. When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as the Assistant Superintendent of the Student Services Division, I agree to allow access for the approved research project. If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794. Sincerely, 12/17/13 Date infliper_ Signature of Principal/Division/Department Head Bristine Minnich, Assistan Supt., Student Services Division Print Name and Title Main Office: 5100 WEST SAHARA AVENUE • LAS VEGAS, NEVADA 89146 • TELEPHONE (702) 799-5000

APPENDIX K

Principal Informed Consent



O.K. Adcock Elementary School 6350 Hyde Avenue Las Vegas, NV 89107 Ph# (702)799-4185 Fax# (702) 799-4172

Lea Chua, Principal

Office of Research Integrity – Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047

Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility

Dear ORI – Human Subjects:

This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, *Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad* at Adcock Elementary School.

When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Adcock Elementary School, I agree to allow access for the approved research project.

If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity – Human Subjects at 895-2794.

Sincerely,

Llal

Signature of Principal/Division/Department Head

12/9/13 Date

UA

Print Name and Title

"We will empower all students to succeed in a challenging world by promoting academic and social excellence."

Balley siley Middle Schoo, n N g "Bob William CLARK COUNTY SCHOOL DISTRICT Phone (702) 799-4811/ Fax (702) 799-4807 2500 N. Hollywood Blvd. Las Vegas NV, 89156 Тепі К. Клерр Daphne L. Brownson Education is the Key Principal Assistant Principal Lakeisha O. Myers Dean of Students Office of Research Integrity - Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047 Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility Dear ORI - Human Subjects: This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad at Bailey Middle School. When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Bailey Middle School, I agree to allow access for the approved research project. If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794. Sincerely, Date Jean Knopp Signature of Principal/Division/Department Head Knepp Terri http://ccsd.net/schools/Bailey





Marion Cahlan-Edison Elementary School

Amy Negrete, Principal

Office of Research Integrity – Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047

Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility

Dear ORI - Human Subjects:

This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, *Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad* at Cahlan Elementary School.

When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Cahlan Elementary School, I agree to allow access for the approved research project.

If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity – Human Subjects at 895-2794.

Sincerely,

Signature of Principal/Division/Department Head

Amy Nedrete, Principa Print Name and Title



s. Tammy R. Villarreal-Crabb hcipal ice of Research Integrity – Human Subjects versity of Nevada, Las Vegas 05 S. Maryland Parkway, Box 451047 5 Vegas, NV 89154-1047 ject: Letter of Acknowledgement of a Research Project at a CCSD Facility ar ORI – Human Subjects: s letter will acknowledge that I have reviewed a request by Jamie Gunderso tled, <i>Exploring Cognitively Accessible Social Studies Lessons for Students of</i> <i>iPad</i> at French Elementary School. en the research project has received approval from the UNL I the Department of Research of the Clark County School Di sentation of the approval letter to me by the approved rese French Elementary School, I agree to allow access for the a	(702) 799-7730 FAX (702) 799-0757
ice of Research Integrity – Human Subjects versity of Nevada, Las Vegas D5 S. Maryland Parkway, Box 451047 Vegas, NV 89154-1047 ject: Letter of Acknowledgement of a Research Project at a CCSD Facility ar ORI – Human Subjects: s letter will acknowledge that I have reviewed a request by Jamie Gunderso tled, <i>Exploring Cognitively Accessible Social Studies Lessons for Students of</i> <i>iPad</i> at French Elementary School. en the research project has received approval from the UNL I the Department of Research of the Clark County School Di sentation of the approval letter to me by the approved rese French Elementary School, I agree to allow access for the a	y n to conduct a research project with Intellectual Disabilities Using
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en the research project has received approval from the UNL I the Department of Research of the Clark County School Di sentation of the approval letter to me by the approved rese French Elementary School, I agree to allow access for the a	
,	V Institutional Review Board strict, and upon archer, as site administrator pproved research project.
ve have any concerns or need additional information, the pr ntacted or we will contact the UNLV Office of Research Integ 5-2794.	oject researcher will be rity – Human Subjects at
cerely,	
<u>mmy R. Villarreal-Crabb</u> nature of Principal/Division/Department Head	<u>12/18/13</u> Date
nmy R. Villarreal-Crabb, Principal nt Name and Title	

FRANK F. GARSIDE JUNIOR HIGH SCHOOL 300 South Torrey Pines Drive · Las Vegas, Nevada 89107 · Phone (702)799-4245 · Fax (702)799-4296 Area 3 · Performance Zone 13 · Scarlett Perryman, Principal Office of Research Integrity - Human Subjects University of Nevada, Las Vegas 4505 S. Marvland Parkway, Box 451047 Las Vegas, NV 89154-1047 Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility Dear ORI - Human Subjects: This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad at Garside Middle School. When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Garside Middle School, I agree to allow access for the approved research project. If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794. Sincerely, Signature of Principal/Division/Department Head Date SCARLETT PERRYMAN Principa Print Name and Title

CLARK COUNTY SCHOOL DISTRICT Daniel Goldfarb Elementary School Dr. Jacqueline Gillespie, Principal Ms. Rebecka Christensen, Assistant Principal Offic arch Integrity - Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047 Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility Dear ORI - Human Subjects: This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad at Goldfarb Elementary School. When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Goldfarb Elementary School, I agree to allow access for the approved research project. If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794. Sincerely, re of Principal/Division/Department Head Date D ure of Principal/Division/Department Head Print Name and Title CCSD Lebtovo, Loarne and Growf 1651 Orchard Valley Dr. • Las Vegas, NV 89142 • Telephone 799-1550 • Fax 799-1556 NY 89146



CARROLL M. JOHNSTON MIDDLE SCHOOL 5855 Lawrence Street, North Las Vegas, Nevada 89081 Phone: 702/799-7001 Fax: 702/799-7010 Mrs. Lisa Rustand Mrs. Shannon Johansen Ms. Krystal Childress Assistant Principal Principal Dean Office of Research Integrity - Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047 Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility Dear ORI - Human Subjects: This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad at Johnston Middle School. When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Johnston Middle School, I agree to allow access for the approved research project. If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794. Sincerely, Cisa Rurtand Lisa Rustand Principal

Jack & Terry N MIDDLE SCHOOL Paradise Hills Drive, Henderson, NV 89002 • (702) 799-3020 • Fax (702) 799-3501 Office of Research Integrity - Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047 Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility Dear ORI - Human Subjects: This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad at Mannion Middle School. When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Mannion Middle School, I agree to allow access for the approved research project. If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794. Sincerely, Dewed W Eubarc Signature of Principal/Division/Department Head 12-13-13 Date DAVID W. ERBACH PRINCIPAL Print Name and Title ARK COUNTY





ELEMENTARY SCHOOL PHONE (702)799-8260 FAX (702)799-8269 Anthony Gelsone, Principal

Office of Research Integrity - Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047

Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility

Dear ORI - Human Subjects:

This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad at Martha King Elementary School.

When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Martha King Elementary School, I agree to allow access for the approved research project.

If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794.

Sincerely,

Signature of Principal/Division/Department Head

Anthony Gelsone, Principal Print Name and Title



Thomas J. O'Roarke Elementary School

Kody Barto, Principal Brenda Swann, Asst. Principal

Office of Research Integrity – Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047

Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility

Dear ORI – Human Subjects:

This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, *Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad* at O'Roarke Elementary School.

When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for O'Roarke Elementary School, I agree to allow access for the approved research project.

If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity – Human Subjects at 895-2794.

Sincerely,

Signature of Principal/Division/Department Head

Date

Print Name and Title

8455 O'Hare Rd., Las Vegas, NV 89143 (702)799-6600 (702)799-6612 FAX



ELEMENTARY SCHOOL 408 Upland Blvd. 。 Las Vegas, NV 89107 Phone (702) 799-4223 Fax (702) 799-4164 Stephanie Wong, Principal Jeffrey Dahl, Assistant Principal December 30, 2013 Office of Research Integrity – Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047 Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility Dear ORI – Human Subjects: This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad at Red Rock Elementary School. When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Red Rock Elementary School, I agree to allow access for the approved research project. If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794. Sincerely, Stephanie Wong Principal CCSD Racing To Reach Dur Goals a loca distanti 5100 West Sahara Ave Las Vegas, NV 89146



and S iddle School M 8625 Spencer Street • Las Vegas, Nevada 89123 • Telephone 702-799-2290 • Fax 702-799-5717 Office of Research Integrity - Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047 Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility Dear ORI - Human Subjects: This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad at Schofield Middle School. When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Schofield Middle School, I agree to allow access for the approved research project. If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794. Sincerely, 16/14 Signature of Principal/Division/Department Head Date Print Name and Title CCSD

Lois & Jerry Tarkanian Middle School 5800 W. Pyle Ave. • Las Vegas, Nevada 89141 • 702 / 799-6801 Office of Research Integrity - Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047 Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility Dear ORI - Human Subjects: This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad at Tarkanian Middle School When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Tarkanian Middle School, I agree to allow access for the approved research project. If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794. Sincerely, Signature of Principal/Division/Department Head Date Principa Sweiker Parven Print Name and Title Empowering All Students To Achieve Success

CLARK COUNTY SCHOOL DISTRICT Harriet Treem 1698 Patrick LN., Henderson, NV 89014



ELEMENTARY SCHOOL PHONE (702)799-8760 FAX (702)799-8760 Lee H. Esplin, Principal Nina Lawson, Assistant Principal

Office of Research Integrity – Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047

Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility

Dear ORI - Human Subjects:

This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, *Exploring Cognitively Accessible Social Studies Lessons for Students with Intellectual Disabilities Using the iPad* at Treem Elementary School.

When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Treem Elementary School, I agree to allow access for the approved research project.

If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794.

Sincerely,

Lee Esplin	Digitally signed by Lee Espin DN: on-Lee Espin, o-CCSD, ou-Hantet Treem E8, email-lespin@interact.ocsd.net. o-US Date: 2013.12:08 07:58:45-07807		12/9/13
Signature of Principal/Division	nature of Principal/Division/Department Head		
Lee Esplin, Principal			
Print Name and Title			

12/9/2013

Elise L. Wolf Elementary School 1001 Seven Hills Drive • Henderson, Nevada 89052 • (702) 799-2230 • Fax (702) 799-2257 Office of Research Integrity - Human Subjects University of Nevada, Las Vegas 4505 S. Maryland Parkway, Box 451047 Las Vegas, NV 89154-1047 Subject: Letter of Acknowledgement of a Research Project at a CCSD Facility Dear ORI - Human Subjects: This letter will acknowledge that I have reviewed a request by Jamie Gunderson to conduct a research project entitled, Exploring Cognitively Accessible Social Studies Lessons for Studer ts with Intellectual Disabilities Using the iPad at Wolff Elementary School. When the research project has received approval from the UNLV Institutional Review Board and the Department of Research of the Clark County School District, and upon presentation of the approval letter to me by the approved researcher, as site administrator for Wolff Elementary School, I agree to allow access for the approved research project. If we have any concerns or need additional information, the project researcher will be contacted or we will contact the UNLV Office of Research Integrity - Human Subjects at 895-2794. Sincerely, <u>12-20-13</u> Date Signature of Principal/Division/Department Head Deborah Harbin Print Name and Title

APPENDIX L

ULS Lessons

Day 1	Day 2	Day 3	Day 4	Day 5
Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes
Pre-assessment Checkpoints Combined Content (Level 1) Content Understanding (2 & 3) (5-10 minutes/student)	Whole Group (15 minutes) Lesson 1: Introduce book with picture walk and background building activities. Small Group (30 minutes) (3 groups x 10 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 2: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 6: Spelling Activities. Small Group (30 minutes) Read news-2-you worksheets. Record complete news-2-you worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 9: Spelling Activities. Small Group (30 minutes) Read news-2-you newspaper an complete news-2-you worksheets Record completed worksheets or work completion checklist.
Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes
Whole Group (15 minutes) Lesson 3: Introduce book with picture walk and background building activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 4: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 7: Spelling Activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 4: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 19: Number Sense. Small Group (30 minutes) Read news-2-you newspaper an complete news-2-you worksheets or work completion checklist.

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Page 5 of 5

Day 1	Day 2	Day 3	Day 4	Day 5
anguage Arts block: 0 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes
Note Croup (14 Minutes) icture walk and background building activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Cecord completed worksheets on vork completion checklist.	Lesson 2: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Spalling Activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Lesson 2: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Small Group (30 minutes) Lesson 10: Spelling Activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets Record completed worksheets on work completion checklist.
anguage Arts block:	Language Arts block:	Language Arts block:	Language Arts block:	Language Arts block:
50 minutes	50 minutes	50 minutes	50 minutes	50 minutes
Whole Group (15 minutes) Lesson 3: Introduce book with iccure walk and background building activities. Small Group (30 minutes) Read news-2-you worksheets. Record complete worksheets. Record completed worksheets.	Whole Group (15 minutes) Lesson 4: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 7: Spelling Activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 4: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Post-assessment Checkpoints Combined Content (Level 1) Content Understanding (2 & 3) (5-10 minutes/student)
Unit Topic: Paper, Rock, Scissors			Lesso	
---	---	--	---	
	Instruction	al Targets		
Range and Level of Text Complexity: Exp adapted to student reading level. Reading Standards for Foundational Skills <i>Print Concepts:</i> Demonstrate understandin <i>Fluency:</i> Read appropriately leveled text will Which of your state standards are aligned to f	erience grade level and age g of print features (left to rig th purpose and understandir hese instructional tarnets?	-appropriate literature m ht, page to page, etc.). ng. 2	aterials, including stories and poems that are	
	3			
Leveled Book: Lee's Rock	Classroom Activi	ties/Lesson Plan		
Lesson 1 provides a simple book in three distinct based on individual abilities, needs or reading goa Select the level appropriate for each student.	reading levels. Emerging re als. This Leveled Book is pr	eaders may engage in th resented in three leveled	e same content when selecting the appropriate leve formats: Level D, Level B and Level aa (captioned	
The content of the Leveled Book focuses on desc of the ways in which an object can be described, i	ribing an object. When they including size, shape and co	y have finished the book, plor.	students should be able to tell about some	
 senses to learn about things. Ask, "What do feels? (hands)" Continue in the same manr On the first reading, do a picture walk. Note Read aloud to model fluency. After reading As a group, reread the story with pauses for with supports for page turning and interactio During independent or paired reading, focus read different levels for different purposes ac Support student reading, using the communi Follow up reading with discussion on other w describe what something is made of? (glass Extension: Play games that allow students to pra the bag and describe the object's shape, size, col object is 	you use to learn about now ler with sound/ears, look/eye pictures of Lee's rock. Emp the story, ask questions abc key words to encourage pair n while they are reading. on individual student readin ach day when building readin cation board to do so. vays to describe objects. As , metal, plastic, etc.)" ctice describing objects. Fc or and so on. While the stu	sometrning smells? (no es and taste/tongue. ohasize the words in all oput the size, shape, color rticipation. Encourage c ang abilities with text or su ng skills. sk, "What words describe or example, place an object	se) What do you use to learn about now something capital letters and review their meanings. , texture, weight and smell of Lee's rock. horal reading of the repeated line. Provide student pported-text versions. It is likely that students may temperature? (hot, cold, cool, etc.) What words ect in a brown paper bag. Have one student look in t, have the rest of the class try to guess what the	
Standards Connection Use the book features and the pictures to co Have students locate the title, the author and Invite students to identify and describe chara Comprehension questions from Leveled Book at all levels to gain meaning. Pre- and onst-assessments are available through	ntinue interaction with the b d the illustrator of the book. acters, setting and events fro s are based on the highes Monthly Checknoints	ook. om the story pictures. t level in the series. Th	nese books may be read aloud to help students	
	Differentia	ted Tasks		
 Level 3 Students will independently read literature stories and poems that have been adapted to student reading level. Students will independently demonstrate basic print concepts (tracking from left to right and from page to page, etc.) during shared story reading. Students will independently read text stories that are selected at the personal reading level. 	 Level 2 Students will read su literature stories and adapted to student re Students will participi concepts (page turnin and pictures, etc.) du reading. Students will state a picture of an omitted reading. 	pported and shared poems that have been sading level. ate in basic print ng, pointing to words rring shared story word or point to a word during shared	 Level 1 Students will actively participate in supporte reading of literature stories and poems that have been adapted to student ability level. Students will attend to shared story reading giving supported indicators to <i>turn the page</i> or <i>read more</i>. Students will state a sentence from a story through an active participation response (e.g., voice output device, eye gaze choice board). 	
Resources and Material	S		Notes	
Communication board				
Communication board				

The ropic. I uper, Rock, ocissors		
	Instructional Targets	Lessor
Reading Standards for Literature		
 Key ideas and Details: Answer questions Which of your state standards are aligned to 	b about key details of a story. Retell a familiar story these instructional targets?	bry, including key details.
, ,	-	
	Classroom Activities/Lesson Plan	
Read and Answer: Lee's Rock		
using both illustrations and text, to locate answ formats. Question responses may also provide activities throughout the unit to increase studer After reading (and rereading) <i>Lee's Rock</i> , use to Choose the most appropriate worksheet on the written in a sentence strip format, allowing stud 1. What does Lee have? (shell, roc 2. What shape is Lee's rock? (blue 4. What doel a locate srick for little?)	ers to questions. Students recognize types of re- students with a foundation for story retell. Rere ts' skills in multiple areas of comprehension. he comprehension worksheets as a guide for stu- basis of each student's needs. Level 3 is text or ents to select from multiple choices or one errork k, flower) d, square, triangle) e, pink, gray)	sponses appropriate to <i>who, what</i> and <i>where</i> ad the Leveled Books and repeat comprehension idents to answer questions about the book. nly. Level 2 is symbol-supported. Level 1 is ess picture choice.
 4. What does Lee's rock reenine? (if 5. What is round like Lee's rock? (di The questions on the comprehension workshee Use these questions to encourage students to comprehension questions. Standards Connection Use the format of this connection to build a student. Comprehension questions from Leveled Bo for students at all levels to gain meaning. 	hard, soft, bumpy) oil, ball, block) ets provide picture and text support to identify the retell the story. Talk about the story's main mess retelling skills. Build communication skills by usin oks are based on the highest level in the serie	e key details or sequence of events in the story. age or main ideas as outlined by the ng the augmentative supports needed for each es. These books may be read aloud as needed
 4. What does Lee s lock teel like? (if 5. What is round like Lee's rock? (di The questions on the comprehension workshee Use these questions to encourage students to comprehension questions. Standards Connection Use the format of this connection to build is student. Comprehension questions from Leveled Bo for students at all levels to gain meaning. 	hard, sort, bumpy) oll, ball, block) ets provide picture and text support to identify the retell the story. Talk about the story's main mess retelling skills. Build communication skills by usi oks are based on the highest level in the serie ab Monthly Checknoints	e key details or sequence of events in the story. age or main ideas as outlined by the ng the augmentative supports needed for each es. These books may be read aloud as needed
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What does Lee's rock rear like? (If S. What is round like Lee's rock? (di The questions on the comprehension workshee Use these questions to encourage students to comprehension questions. Standards Connection Use the format of this connection to build i student. Comprehension questions from Leveled Bo for students at all levels to gain meaning. Pre- and post-assessments are available throu Level 3 Students will independently read who	ard, sort, bumpy) pli, ball, block) ets provide picture and text support to identify the retell the story. Talk about the story's main messi- retelling skills. Build communication skills by usi- oks are based on the highest level in the serie gh Monthly Checkpoints. Differentiated Tasks Level 2 Students will point to or select a picture	e key details or sequence of events in the story. age or main ideas as outlined by the ng the augmentative supports needed for each es. These books may be read aloud as needed
 4. What does Lee's lock teel like? (if 5. What is round like Lee's rock? (di The questions on the comprehension workshee Use these questions to encourage students to comprehension questions. Standards Connection Use the format of this connection to build is student. Comprehension questions from Leveled Bo for students at all levels to gain meaning. Pre- and post-assessments are available throut the student will independently read who, what, where, when or why questions 	ard, sort, bumpy) pli, ball, block) ets provide picture and text support to identify the retell the story. Talk about the story's main messi- retelling skills. Build communication skills by usi- oks are based on the highest level in the serie gh Monthly Checkpoints. Differentiated Tasks Level 2 • Students will point to or select a picture from a choice of three in response to a	e key details or sequence of events in the story. age or main ideas as outlined by the ng the augmentative supports needed for each es. These books may be read aloud as needed <u>Level 1</u> • Students will respond to a <i>who</i> or <i>what</i> question by choosing a single option or
 4. What does Lee's lock teel like? (if 5. What is round like Lee's rock? (di The questions on the comprehension workshee Use these questions to encourage students to comprehension questions. Standards Connection Use the format of this connection to build is student. Comprehension questions from Leveled Bo for students at all levels to gain meaning. Pre- and post-assessments are available throut the student will independently read who, what, where, when or why questions about a story and write, speak or select an answer. 	 hard, sort, bumpy) hall, block) sts provide picture and text support to identify the retell the story. Talk about the story's main messive tetelling skills. Build communication skills by usine oks are based on the highest level in the serier gh Monthly Checkpoints. Differentiated Tasks Level 2 Students will point to or select a picture from a choice of three in response to a who, what or where question about a story 	e key details or sequence of events in the story. age or main ideas as outlined by the ng the augmentative supports needed for each es. These books may be read aloud as needed Level 1 • Students will respond to a <i>who</i> or <i>what</i> question by choosing a single option or an errorless picture. • Students will respond to a single option or an errorless picture.
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		Lesson
 Range and Level of Text Complexity: Exarce adapted to student reading level. Reading Standards for Foundational Skills Print Concepts: Demonstrate understandi Fluency: Read appropriately leveled text v Which of your state standards are aligned to 	perience grade level and age-appropriate literature ng of print features (left to right, page to page, etc.). vith purpose and understanding. these instructional targets?	materials, including stories and poems that
Easy Read Book: Something Different	Classroom Activities/Lesson Plan	
This lesson presents an Easy Read Book. The also presents the characters, setting and events	book follows a sequence to introduce beginning, mi of a story.	ddle and end concepts of story reading. It
In this story, students will learn about ways that	paper can be changed. This book is identified as a	Level E.
Multiple readings of the book will provide studer Do a picture walk. Discuss the characters story. Introduce what will happen first, nex Introduce high-frequency words from the si Read the story aloud to model fluency. As Read the story aloud, pausing for students During independent or paired reading, focu reading words. Have students use decoding Content of the students	tts with repeated opportunities to build individual rea and actions from the pictures. Help students make t and last. tory. k questions related to the characters, actions and er to complete repetitive or predictable lines. Is on the students' individual abilities and needs. Er ig skills to identify unfamiliar words.	Iding skills. predictions about what will happen next in the vents in the story. ncourage students to use pictures to support
 Support student reading, using the commu Follow up reading by discussing other com Standards Connection Use the book features and the pictures to construct the students locate the title, the author and linvite students to identify and describe characteristic construction 	nication board to do so. mon physical and chemical changes, such as water continue interaction with the book. nd the illustrator of the book. racters, setting and events from the story pictures.	freezing to form ice and cooking an egg.
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Instructional Targets Reading Standards for Literature • Key Ideas and Details: Answer questions about key details of a story. Retell a familiar story, including key details. Which of your state standards are aligned to these instructional targets? Classroom Activities/Lesson Plan Read and Answer: Something Different Comprehension activities extend beyond "checking" what students remember from reading. During instruction, students learn to refer to the bou sing both ilustrations and text, to locate answers to questions. Students recognize types of responses appropriate to who, what and where formats. Ouseion responses may also provide students with a foundation for story retell. Activities should be repeated throughout the unit to increase students' skills in multiple areas of comprehension reading. During instruction, students about? (scisors, changes, stars) After reading (and rereading) Something Different, use the comprehension worksheets as a guide to answer questions about the book. Choose the most appropriate worksheet on the basis of each student's redue, showed is the cose sharel hange? (paper, rocks, fruit) What does Shantel learn about? (scisors, changes, stars) . What choses the paper change into when burned? (tree, ash, notebook) Build on comprehension by having students retell the story. . Students, discuss the story's main message or main idea as outlined by the comprehension questions. The comprehension questions will provide picture and text support, enabling students of identify the key details or sequ			Lesso
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Init Topic: Paper, Rock, Scissors			Lesso
	Instruction	nal Targets	2000
Reading Standards for Foundational Skills	ah-frequency sight words		ills to read new words
Standards for Language	gir nequency signt words		
Conventions of Standard English: Corre Which of your state standards are aligned to	ctly spell words with com	mon spelling patterns.	
Which of your state standards are anglied to		Jeta :	
	Classroom Activ	ities/Lesson Plan	
High-Frequency Spelling List 1	Old35100III Activ		
Students need multiple and varied experiences experiences include writing and spelling words with the state of the state o	with high-frequency word vithin meaning-making se	ls before they are automa entences and as part of s	tically recognized and read. These lesson ound-symbol associations.
Spelling List 1: her, not, or, some, that, how			
Select spelling list appropriate for each stud	dent (text or pictures).		
With your students, review words from the	story and the word wall.	rivaha ata	
Students will practice writing words on dotte	eu lines or letter fill-in wo	IKSHEEIS.	
Choose the most appropriate worksheet on the	basis of each student's n	eeds. Level 3 is text only	v. Level 2 is symbol-supported. Level 1 is
written in a sentence surp format for students wi	to may require alternative	e iornis or responding.	
Follow up spelling activities with a "spelling test. Additional ideas for word study instruction are pr	" Encourage students to rovided in the ULS Instru	write and use words in o uctional Guides: Word S	ther reading and writing contexts. Study.
Fill-In		Word Study	
 Students will practice writing words in sente cutout words or pictures. 	ences or fill in with	Students will analy Students may writ	yze the word to complete the word study. e words or use cutout words or pictures.
1. Cora has own rock collection. (h	er)	1. What word star	ts like them? (that)
3 should she sort the rocks? (How)	 What word end What word rhy 	mes with <i>fur</i> ? (her)
4. Should she sort them by size sha	ape? (or)	4. What word star	ts like sand? (some)
 She decides she will sort them by She will sort them by shape. (no 	vsize. (tnat) t)	 What word rhy 6. What word rhy 	mes with <i>not</i> ? (not) mes with <i>for</i> ? (or)
Level 3	Differentia	ated Tasks	Level 1
Students will independently read	Students will select	ct or point to a named	Students will select a named
high-frequency words.	high-frequency wo	ord from a set of three	high-frequency word from a single option
 Students will independently read and write words by applying letter-sound 	Words. Students will select	t or point to a named	Choice. Students will attend to activities that
correspondences.	word from a set of	three words, using	apply letter-sound correspondence to the
Students will read new words by decoding	cues from letter-so	ound correspondence.	reading of words.
Initial, final and vowel sound knowledge.	 Students will spell letter-sound match 	common words with	
common spelling patterns.			
Resources and Materia	als		Notes
Worksheets and sentence strip cards		1	

Instructional Targets Reading Standards for Foundational Skills Phonics and Word Recognition: Read high-frequency sight words. Apply basic phonics skills to read new words. Standards for Language Conventions of Standard English: Correctly spell words with common spelling patterns. Which of your state standards are aligned to these instructional targets? Classroom Activities/Lesson Plan High-Frequency Spelling List 2 Students need multiple and varied experiences with high-frequency words before they are automatically recognized and read. These lesson argeriences include writing words within meaning-making sentences and as part of sound-symbol associations. Spelling List 2: into, thing, change, does, small, paper Statedins will practice writing words on dotted lines or letter fill-in worksheets. Choose the most appropriate worksheet on the basis of each students needs. Level 3 is text only. Level 2 is symbol-supported. Level 1 is written in a sentence strip format for students will may require alternative forms of responding. Follow up spelling lactivities with a "spelling lest". Encourage students to write and use words in other reading and writing words in sentences or fill in with cutoul words or pictures. What	-			Lesson
Phonics and Word Recognition: Read high-frequency sight words. Apply basic phonics skills to read new words. Standards for Language Classeroom Activities/Lesson Plan Idigh-Frequency Spelling List 2 Classeroom Activities/Lesson Plan Idigh-Frequency Spelling List 2 Students will part or are dependences with high-frequency words before they are automatically recognized and read. These lesson experiences include writing and spelling words within meaning-making sentences and as part of sound-symbol associations. Spelling List 2: into, thing, change, does, small, paper Students will practice writing words on dotted lines or letter fill-in worksheets. Choose the most appropriate worksheet on the basis of each student's needs. Level 3 is text only. Level 2 is symbol-supported. Level 1 is written in a sentence strip formal for students who may require altenative forms of responding. Follow up spelling activities with a "spelling test." Encourage students to write and use words in other reading and writing contexts. Additional ideas for word study instruction are provided in the ULS Instructional Guides: Word Study. Students will practice writing words is entences or fill in with cutout words or pictures. I. What	Reading Standards for Foundational Skills	Instruction	nal Targets	
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Conventions of Standard English: Correctly spell works with common spelling patterns. Which of your state standards are aligned to these instructional targets? Classroom Activities/Lesson Plan Sudents will appropriate for each student (text or pictures). Vith your students, review words from the story and the word wall. Students will practice writing words on dotted lines or letter fill-in worksheets. Choose the most appropriate worksheet on the basis of each student's needs. Level 3 is text only. Level 2 is symbol-supported. Level 1 is writhen in a sentence strip format for students will are provided in the ULS Instructional Guides: Word Study. Follow up spelling activities with a "spelling test." Encourage students to write and use words in other reading and writing contexts. Additional ideas for word study instruction are provided in the ULS Instructional Guides: Word Study. Fill-In Word Study Students will practice writing words in sentences or fill in with cutout words or pictures. What word speer (change) Shudents will practice are paper: Students will andependently read high-frequency words Students will independently read high-frequency words Students will independently read words. Students will independently read with words by decoding initial, final and words by decoding initial, final and words by decoding initial, final and woreds by decoding initie-sound correspondence. Students w	Standards for Language			
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Classification Activities/Lesson Praim Values/Second Praim Students need multiple and varied experiences with high-frequency words before they are automatically recognized and read. These lesson experiences include writing and spelling words within meaning-making sentences and as part of sound-symbol associations. Spelling List 2: into, thing, change, does, small, paper Select spelling list appropriate for each student (text or pictures). With your students, review words from the story and the word wall. Students will practice writing words on dotted lines or letter fill-in worksheets. Students will practice writing words in sentences or fill in with cutout words or pictures. Level 1 is written in a sentences or fill in with cutout words or pictures. 1. WhatShantel have? (does) Students will practice writing words in sentences or fill in with cutout words or pictures. What word starts like <i>int</i> ? (into) S. She can		Clearroom Activ	itica/l accon Blan	
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	Instruction	nal Targoto	Lesso
Reading Standards for Foundational Skills	Instruction	nai raigets	
 Phonological Awareness: Identify rhymin sounds in a spaker word 	g words. Blend onset an	id rime to identify a spoke	en word. Distinguish initial, medial and final
 Phonics and Word Recognition: Use lett 	er-sound matches to dec	ode words. Apply basic	phonics skills to read new words.
Standards for Language			
Which of your state standards are aligned to	these instructional targ	gets?	
	Classroom Activ	ities/Lesson Plan	
Word Rime Spelling List 3			
In order to grow as readers, students need to le	arn skills for decoding un	familiar words. Students	gain skill confidence as instruction on onset and
rime is applied into meaning-making sentences	as well as word study act	tivities.	
Spelling List 3			
 Word rimes: mice, nice, rice, spice Select a spelling list appropriate for each s 	tudent (with text or nictur	ec)	
 Students will practice writing words on dott 	ed lines or letter fill-in wo	es). rksheets.	
Choose the most appropriate worksheet on the written in sentence strip format for students who	basis of each student's n may require alternative t	eeds. Level 3 is text only forms of responding	y. Level 2 is symbol-supported. Level 1 is
		ionno or rooponanig.	
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Additional ideas for word study instruction are p		ictional Guides. Word	Study.
Fill-In		Word Study	
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		indy write words e	
1. Cinnamon is a (spice)	(rice)	1. What word star	rts like mitten? (mice)
2. Cinnamon on applesauce tastes 3. Like to eat white(rice)	(nice)	 What word state What word state 	rts like sport? (spice)
4. Do you think like rice? (mice)		4. What word sta	rts like <i>nickel</i> ? (nice)
	Differentia	ated Tasks	
	Level 2		Level 1
Level 3	LOVOIZ		 Students will select a picture of a named
Level 3 Students will blend onset and rime to state	Students will point	t to or select a named	
Level 3 Students will blend onset and rime to state a series of rime words. Students will independently read and 	Students will point word rime. Students will select	t to or select a named	 word rime (single option choice). Students will attend to activities that
Level 3 Students will blend onset and rime to state a series of rime words. Students will independently read and write words by applying letter-sound	 Students will point word rime. Students will select word from a set of 	t to or select a named ct or point to a named f three words, using	 word rime (single option choice). Students will attend to activities that apply letter-sound correspondence to the
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Level 3 • Students will blend onset and rime to state a series of rime words. • Students will independently read and write words by applying letter-sound correspondences. • Students will read new words by applying initial, final and vowel sound knowledge. • Students will spell and write words with common spelling patterns. Resources and Material Worksheets and sentence strips Picture/Word cards and Word cards with rime w	Students will point word rime. Students will select word from a set of cues from letter-so Students will spell letter-sound match s ords: mice, nice, rice,	t to or select a named ct or point to a named f three words, using ound correspondence. common words with hes.	 word rime (single option choice). Students will attend to activities that apply letter-sound correspondence to the reading of words. Notes
Level 3 • Students will blend onset and rime to state a series of rime words. • Students will independently read and write words by applying letter-sound correspondences. • Students will read new words by applying initial, final and vowel sound knowledge. • Students will spell and write words with common spelling patterns. Resources and Material Worksheets and sentence strips Picture/Word cards and Word cards with rime w spice	Students will point word rime. Students will select word from a set of cues from letter-so Students will spell letter-sound match s ords: mice, nice, rice,	t to or select a named ct or point to a named f three words, using ound correspondence. common words with hes.	 word rime (single option choice). Students will attend to activities that apply letter-sound correspondence to the reading of words. Notes
Level 3 • Students will blend onset and rime to state a series of rime words. • Students will independently read and write words by applying letter-sound correspondences. • Students will read new words by applying initial, final and vowel sound knowledge. • Students will spell and write words with common spelling patterns. Resources and Material Worksheets and sentence strips Picture/Word cards and Word cards with rime w spice	Students will point word rime. Students will select word from a set of cues from letter-so Students will spell letter-sound match s ords: mice, nice, rice,	t to or select a named ct or point to a named f three words, using ound correspondence. common words with hes.	word rime (single option choice). • Students will attend to activities that apply letter-sound correspondence to the reading of words. Notes

Grade Band: Elementary Unit Target: Physical Science Unit 22 Unit Topic: Paper, Rock, Scissors Lesson 10 Instructional Targets Reading Standards for Foundational Skills Phonological Awareness: Identify rhyming words. Blend onset and rime to identify a spoken word. Distinguish initial, medial and final sounds in a spoken word. Phonics and Word Recognition: Use letter-sound matches to decode words. Apply basic phonics skills to read new words. Standards for Language Conventions of Standard English: Correctly spell words with common spelling patterns. Which of your state standards are aligned to these instructional targets? Classroom Activities/Lesson Plan Word Rime Spelling List 4 In order to grow as readers, students need to learn skills for decoding unfamiliar words. Students gain skill confidence as instruction on onset and rime is applied into meaning-making sentences as well as word study activities. Spelling List 4 Word rimes: name, game, came, flame Select a spelling list appropriate for each student (with text or pictures). Students will practice writing words on dotted lines or letter fill-in worksheets. Choose the most appropriate worksheet on the basis of each student's needs. Level 3 is text only. Level 2 is symbol-supported. Level 1 is written in sentence strip format for students who may require alternative forms of responding. Follow up spelling activities with a "spelling test." Encourage students to write/use words in other contexts. Additional ideas for word study instruction are provided in the ULS Instructional Guides: Word Study. Fill-In Word Study Students will practice writing words in sentences or fill in with Students will analyze the words to complete the word study. cutout words and pictures. Students may write words or use cutout words and pictures. 1. Welcome, I'm glad you __ 1. What word starts like flag? (flame) _. (came) ? (game) 2. Do you want to play a _ 2. What word starts like goat? (game) 3. What is that girl's _ ? (name) 3. What word starts like cake? (came) 4. What word starts like nurse? (name) 4. The fire has an orange . (flame) **Differentiated Tasks** Level 1 Level 3 Level 2 Students will blend onset and rime to ٠ Students will point to or select a named . Students will select a picture of a named state a series of rime words. word rime. word rime (single option choice). Students will independently read and Students will select or point to a named Students will attend to activities that . write words by applying letter-sound word from a set of three words, using apply letter-sound correspondence to the correspondences. cues from letter-sound correspondence. reading of words. Students will read new words by applying Students will spell common words with initial, final and vowel sound knowledge. letter-sound matches Students will spell and write words with common spelling patterns. **Resources and Materials** Notes Worksheets and sentence strips Picture/Word cards and Word cards with rime words: name, game, came, flame © 2014 n2y ULS, March 2014

			Lesson
	Instructiona	al Targets	LUGOU
 Know number names and the count sequence: Count to tell the number of objects: Demonstration of the count sequence: Compare numbers: Indicate whether the number Math Standards for Operations and Algebraic Thinkii Represent and solve problems involving addition objects and representations. Add and subtract with Understand and use + and = symbols when solve the set of the s	Count by ones to 10, 20 and 1 e one-to-one correspondence or of objects in one group is <i>more</i> ng on and subtraction: Model pu nin ranges of 1–10 and 1–20. I ing oroblems.	00. Read and write numeral when counting. Count a num , less or equal to the numbe tting together (addition, mor Use objects, representations	Is to 10 and 20. nber of objects to tell <i>how many</i> . r of objects in another group. e, equal) and taking away (subtraction, less, equal) with and numerals to solve real-life word problems.
Which of your state standards are aligned to these	e instructional targets?		
	Classroom Activit	ies/Lesson Plan	
Number Sense: Ch-Ch-Changes			
 Construction of aducting wind call write infilled is a mainpulatives or teacher support. Tracing lines are avail activities. Communication devices can be programmed 1 errorless number choice. The scenarios in this lesson in skills. As you work through the scenarios talk with stude melting ice cubes and tearing paper. The chemical chan Numbers and Counting and Numbers to 10 Number Sense 1, 2, 3: Counting and Numbers to 10 Number Sense 4: Counting and Numbers to 20 Number Sense 5: How Many? 1–5 Number Sense 5: How Many? 1–5 Number Sense 5: How Many? 1–10 Number Sense 5: How Many? 1–10 Number Sense 6: How Many? 1–10 Number Sense 7: How Many? 1–10 Number Sense 8: How Many? 11–20 Number Sense 8: How Many? 11–20 Present a number of objects. Have students fit Counting Present a number of objects. Have students fit Counting Present a number of objects for counting. Ask: "Writhe Build on skills for one-to-one correspondence when comaching objects to a template or by pointing or touch 10: Present two groups of objects for counting. Ask: "Writhe The other? Are the groups equal?" Design lessons according to student abilities. Use maning cards, symbol cards (+, - and =) and additional tools for or counting (hu 2, 5 sor 10c). 	ad be, but hand-over-hand assi to support students in counting volve two characters, Paige an ths about the types of changes ges include cooking eggs and nd the matching numeral. e number of items. punting. Have students count by ing when counting. ch group has <i>more</i> (or <i>less</i>) than pulatives to simulate problem s math instruction are provided in ting activities. The chart may l	Augment of a Student stance is appropriate. Number stance is appropriate. Number jotcures and manipulatives, id Drew, who are changing of taking place. The physical burning logs. Addition and Subtrac Number Sense 9: Add Number Sense 10: Ad Number Sense 11: Su Number Sense 12: SU Number Sense 13: Ad Number Sense 13: Ad Number Sense 16: Su Addition Have students code to the students model. Create additional cenarios. Use a VELCRO®- the ULS Instructional Too	Iter source a contract of the serial of the source of the
counting (by 2s, 5s or 10s).	II S Instructional Guides: Ma	athematics	
Pre- and post-assessments are available through Monthi	ly Checkpoints.		
10/012	Differentiat	ed Tasks	
 Lever 3 Students will count a number of objects and identify the associated numeral. Students will count objects in two defined groups and determine which group contains more or less than the other or whether the groups are equal. Students will add and subtract numbers within the context of a real-world scenario. 	Students will match ob number line (one-to-on identify a number of ob Students will pair objec determine which group other or whether the gr Students will model ad two sets of objects in th scenario.	jects to a corresponding te match) to count and ojects. Its from two groups to has more or less than the oups are equal. dition and subtraction of he context of a real-world	 <u>Lever</u> 1 Students will count to a given number throug an active participation response (e.g., voice output device, eye gaze choice board). Students will select numbers (errorless choice) to count and compare numbers within a math problem involving the concepts of more and less. Students will count sets of objects through an active participation response (e.g., voice output duyice, eye gaze objects
Resources and Materials			Notes
Scenario cards	20	Number cards and symbol out ULS Instructional Tools:	cards (+, - and =) are provided in the Math Pack/Numbers.

Day 1	Day 2	Day 3	Day 4	Day 5
Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes
Pre-assessment Checkpoints Combined Content (Level 1) Content Understanding (2 & 3) (5-10 minutes/student)	Whole Group (15 minutes) Lesson 1: Introduce book with picture walk and background building activities. Small Group (30 minutes) (3 groups x 10 minutes) Read news-2-you newspaper and complete news-2-you orksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 2: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 8: Spelling Activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 5: Nonfiction Article Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets Record completed worksheets on work completion checklist.
Languaga Arta blasku	Language Arts black	Language Arts blanks	Language Arts black	Language Arts block
Language Arts block: 50 minutes	50 minutes	50 minutes	50 minutes	50 minutes
Whole Group (15 minutes) Lesson 3: Introduce book with picture walk and background building activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 4: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 9: Spelling Activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 4: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 16: Number Sense. Small Group (30 minutes) Read news-2-you newspaper an complete news-2-you worksheet Record completed worksheets or work completion checklist.

Day 1	Day 2	Day 3	Day 4	Day 5
Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes
Whole Group (15 minutes) Lesson 1: Introduce book with picture walk and background building activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 2: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 8: Spelling Activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 2: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you ownspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 6: Nonfiction Article Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.
Language Arts block: 50 minutes Whole Group (15 minutes) Lesson 3: Infroduce book with picture walk and background building activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Language Arts block: 50 minutes Whole Group (15 minutes) Lesson 4: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Language Arts block: 50 minutes Whole Group (15 minutes) Lesson 9: Spelling Activities. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Language Arts block: 50 minutes Whole Group (15 minutes) Lesson 4: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Language Arts block: 50 minutes Post-assessment Checkpoints Combined Content (Level 1) Content Understanding (2 & 3) (5-10 minutes/student)

Jnit Topic: Make It Move			
	Instruction	nal Targets	LESSU
 Reading Standards for Literature Range and Level of Text Complexity: Exp fiction and nonfiction works that are adapted Reading Standards for Foundational Skills Fluency: Read appropriately leveled books 	perience grade level and d to student reading leve with accuracy and fluen	age-appropriate literature I. cy.	e materials, including stories, poems, plays,
Which of your state standards are aligned to	these instructional targ	jets?	
	Classroom Activ	ities/Lesson Plan	
 Lesson 1 provides a simple book in three distinc appropriate level based on individual abilities, ne and Level aa (captioned). Select the level appropriate level based on individual abilities, ne and Level aa (captioned). Select the level appropriate level based on individual abilities, ne and Level aa (captioned). Select the level appropriate level based on their bodies. Introduce the story by talking about motion create motion, with their bodies. On the first reading, do a picture walk. Note ways in which students can move their bodi you hear music? Do you clap your hands o Read the story aloud to model fluency. The story, ask questions about the ways in whice less-familiar action words, such as <i>bob</i>, whi As a group, reread the story with pauses for students with supports for page turning and During independent or paired reading, focuus students may read different levels for differe Support student reading, using the community of force. Point out that when dancing, stude brainstorm a list of other things that can be standards Connection Use the book features and the pictures to ce Have students to identify and describe char With students, read the text to determine with Comprehension questions from Leveled Boo students at all levels gain meaning. Pre- and post-assessments are available througge 	treading levels. Emergin beeds or reading goals. TI priate for each student. g and dance. When they and movement. Ask, "Di- e pictures of the characte ies. Discuss some of stu- ir tap your toes? Do you e Level C and B books ca- h students moved specific ich means "to nod, or mo- r key words to encourage interaction while they ars s on individual student re ant purposes each day w ication board to do so. nings move. Explain that ints' muscles push and p moved with a push or pu- ontinue interaction with ti d the illustrator of the bo- racters, setting and event hether this story is told by ks are based on the hig h Monthly Checkpoints.	In readers may engage in this Leveled Book is preserved thave finished the book, to you like to dance?" Exp that a construct the second that a favorite dance mong have a favorite dance mong that a favorite dance mong t	the same content when selecting the unted in three leveled formats: Level D, Level B students should be able to describe some of the olain that when people dance, they move, or its. Emphasize that there are many different ves. For example, ask, "What do you do when ove you like to do?" tune of "The Loco-Notion." After reading the ing along with the dance. Explain and model e choral reading of the repeated line. Provide r supported-text versions. It is likely that s. its own. Objects must be pushed or pulled by odies, making them move. Working together, the characters in the story. . These books may be read aloud to help
Pre- and post-assessments are available through	n Montniy Checkpoints. Differenti:	ated Tasks	
Level 3	Level 2		Level 1
 Students will independently read literature: stories, poems, plays, fiction and nonfiction works that have been adapted to student reading level. Students will independently read text stories that are selected at the personal reading level. 	 Students will read literature: stories, and nonfiction wor adapted to student Students will state picture of an omitt reading. Students will read supported with pic 	supported and shared poems, plays, fiction ks that have been t reading level. a word or point to a ed word during shared leveled text that is ture symbols.	 Students will actively participate in supported reading of literature: stories, poems, plays, fiction and nonfiction works that have been adapted to studer ability level. Students will state a sentence from a story through an active participation response (e.g., voice output device, eye gaze choice board).
Resources and Materials	8		Notes
Communication board Standards Connection Lesson 1			

	Instruction	nal Targets	Lesso
 Reading Standards for Literature Key Ideas and Details: Answer question main theme and details. Which of your state standards are aligned to 	s and locate details in text	to support an answer. S	ummarize a story to show understanding of the
which of your state standards are aligned t	o tilese instructional tal	Jets !	
	Classroom Activ	ities/Lesson Plan	
Read and Answer: Make Your Body Move N	ow		
Comprehension activities extend beyond "cheat using both illustrations and text, to locate answ formats. Question responses may also provid activities throughout the unit to increase stude	king" what students remeners to questions. Students estudents with a foundation nts' skills in multiple areas	mber from reading. Durin s recognize types of resp on for story retell. Reread of comprehension.	g instruction, students learn to refer to the boc onses appropriate to who, what and where the Leveled Book and repeat comprehension
After reading (and rereading) <i>Make Your Body</i> the book. Choose the most appropriate works 1 is written in a sentence strip format, allowing	Move Now, use the comp heet on the basis of each s students to select from mu	rehension worksheets as student's needs. Level 3 ultiple choices or one erro	a guide for students to answer questions about is text only. Level 2 is symbol-supported. Lev rless picture choice.
 What can Betsy and her friends do? What do they do with their feet? (cla What do they snap? (hips, fingers, Where do they wave their hands? (they do they both their beads? (bind 	(sit, dance , sing) p, wave, stomp) nose) up high, down low, across)	
The questions on the comprehension workshe these questions to encourage students to retel questions.	ets provide picture and tex I the story. Talk about the	t support to identify key d story's main message or	etails or sequence of events in the story. Use main idea as outlined by the comprehension
The questions on the comprehension workshe these questions to encourage students to retel questions. Standards Connection • Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning.	ets provide picture and tex the story. Talk about the retelling and summarizing roks are based on the hig	t support to identify key d story's main message or skills. Build communicat ghest level in the series	etails or sequence of events in the story. Use main idea as outlined by the comprehension ion skills by using the augmentative supports . These books may be read aloud to help
The questions on the comprehension workshe these questions to encourage students to retel questions. Standards Connection Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning. Pre- and post-assessments are available throu	ets provide picture and tex I the story. Talk about the retelling and summarizing toks are based on the hig igh Monthly Checkpoints.	t support to identify key d story's main message or skills. Build communicat ghest level in the series	etails or sequence of events in the story. Use main idea as outlined by the comprehension ion skills by using the augmentative supports . These books may be read aloud to help
The questions on the comprehension workshe these questions to encourage students to reter questions. Standards Connection • Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning. Pre- and post-assessments are available throw	ets provide picture and tex I the story. Talk about the retelling and summarizing toks are based on the hig ogh Monthly Checkpoints.	t support to identify key d story's main message or skills. Build communicat ghest level in the series	etails or sequence of events in the story. Use main idea as outlined by the comprehension ion skills by using the augmentative supports . These books may be read aloud to help
The questions on the comprehension workshe these questions to encourage students to reter questions. Standards Connection Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning. Pre- and post-assessments are available throut Level 3	ets provide picture and tex the story. Talk about the retelling and summarizing roks are based on the hig righ Monthly Checkpoints. Differentia Level 2	t support to identify key d story's main message or skills. Build communicat ghest level in the series ated Tasks	etails or sequence of events in the story. Use main idea as outlined by the comprehension ion skills by using the augmentative supports . These books may be read aloud to help Level 1
The questions on the comprehension workshe these questions to encourage students to reter questions. Standards Connection Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning. Pre- and post-assessments are available throu Level 3 Students will independently read questions about a story and write, speak or select an answer. Students will retell a story, including the main idea and key details.	ets provide picture and tex the story. Talk about the retelling and summarizing toks are based on the hig <i>igh Monthly Checkpoints.</i> Differentia Level 2 • Students will point from a choice of th <i>who, what</i> or <i>whe</i> story. • Students will use p key details from a	t support to identify key d story's main message or skills. Build communicat ghest level in the series ated Tasks to or select a picture are question about a picture supports to retell story.	etails or sequence of events in the story. Use main idea as outlined by the comprehension ion skills by using the augmentative supports . These books may be read aloud to help <u>Level 1</u> • Students will respond to a question by choosing a single option or errorless picture. • Students will retell key details from a story through an active participation response (e.g., voice output device, eye gaze choice board).
The questions on the comprehension workshe these questions to encourage students to reter questions. Standards Connection Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning. Pre- and post-assessments are available throut Level 3 Students will independently read questions about a story and write, speak or select an answer. Students will retell a story, including the main idea and key details. Resources and Materials	ets provide picture and tex the story. Talk about the retelling and summarizing boks are based on the hig <i>igh Monthly Checkpoints.</i> Differentia Level 2 • Students will point from a choice of th <i>who, what or when</i> story. • Students will use j key details from a	t support to identify key d story's main message or skills. Build communicat ghest level in the series ated Tasks to or select a picture are question about a picture supports to retell story.	etails or sequence of events in the story. Use main idea as outlined by the comprehension ion skills by using the augmentative supports These books may be read aloud to help <u>Level 1</u> • Students will respond to a question by choosing a single option or errorless picture. • Students will retell key details from a story through an active participation response (e.g., voice output device, eye gaze choice board). Notes

				Lesson
Por	ading Standards for Literature	Instruction	nal Targets	
• Rea	Range and Level of Text Complexity: Exp fiction and nonfiction works that are adapted ading Standards for Foundational Skills Fluency: Read appropriately leveled books	perience grade level and d to student reading leve with accuracy and fluen	age-appropriate literature I. cy.	e materials, including stories, poems, plays,
Wh	ich of your state standards are aligned to	these instructional targ	jets?	
		Classroom Activ	ities/Lesson Plan	
Eas	sy Read Book: Push and Pull on the Playg	round		
This also	s lesson presents an Easy Read Book. The b p presents the characters, setting and events	book follows a sequence of a story.	to introduce beginning, n	niddle and end concepts of story reading. It
In tł	his story, students will learn about the forces	that make things move.	This book is identified as	a Level E.
Mul	tiple readings of the book will provide studen	ts with repeated opportu	nities to build individual re	eading skills.
•	Do a picture walk. Discuss the characters a story. Introduce what will happen first, next Introduce high-frequency words from the st	and actions from the picto and last.	ures. Help students make	e predictions about what will happen next in the
•	Read the story aloud to model fluency. Ask Read the story aloud, pausing for students During independent or paired reading, focu: reading words. Have students use decodin Support student reading, using the commur Follow up reading by discussing additional playing tug-of-war) on the playground. If tin activities in pairs or small groups, identifying	c questions related to the to complete repetitive or s on the students' individ g skills to identify unfami nication board to do so. examples of pushing (e.c. en allows, set up a circui g the main force involved	characters, actions and o predictable lines. ual abilities and needs. E liar words. y., kicking a ball, hitting a t of pushing and pulling a in each activity.	events in the story. Encourage students to use pictures to support ball) and pulling (e.g., climbing on equipment, ctivities. Then have students move through the
C • • •	Standards Connection Use the book features and the pictures to c Have students locate the title, the author an Invite students to identify and describe char With students, read the text to determine wi	ontinue interaction with the illustrator of the boarders, setting and even hether this story is told by	he book. ok. Is from the story pictures. y the author or by one of	the characters in the story.
Pre	 and post-assessments are available throug 	h Monthly Checkpoints.		
	vol 3	Differentia	ated Tasks	Level 1
•	Students will independently read literature: stories, poems, plays, fiction and nonfiction works that have been adapted to student reading level. Students will independently read text stories that are selected at the personal reading level.	 Students will read literature: stories, and nonfiction wor adapted to studen Students will state picture of an omitt reading. Students will read supported with picc 	supported and shared poems, plays, fiction ks that have been t reading level. a word or point to a ed word during shared leveled text that is ture symbols.	 Students will actively participate in supported reading of literature: stories, poems, plays, fiction and nonfiction works that have been adapted to student ability level. Students will state a sentence from a story through an active participation response (e.g., voice output device, eye gaze choice board).
	Resources and Materials	5		Notes
Eas	sy Read Book: Push and Pull on the Playgrou mmunication board	Ind		

		Lessor
Reading Standards for Literature	Instructional Targets	
 Key Ideas and Details: Answer questions a 	nd locate details in text to support an answer. Sur	mmarize a story to show understanding of the
main theme and details. Which of your state standards are aligned to t	hese instructional targets?	
which of your state standards are alighed to t	nese instructional targets :	
	Classroom Activities/Lesson Plan	
Read and Answer: Push and Pull on the Playg	round	
Comprehension activities extend beyond "checkir using both illustrations and text to locate answers formats. Question responses may also provide s comprehension activities throughout the unit to in	ng" what students remember from reading. During to questions. Students recognize types of respon tudents with a foundation for story retell. Reread t crease students' skills in multiple areas of compre	instruction, students learn to refer to the book uses appropriate to <i>who, what</i> and <i>where</i> the Easy Ready Book and repeat hension.
After reading Push and Pull on the Playground or Choose the most appropriate worksheet on the ba written in sentence strip format, allowing students	te or more times, use the comprehension workshe asis of each student's needs. Level 3 is text only. to select from multiple choices or one errorless pi	ets to answer questions about the book. Level 2 is symbol-supported. Level 1 is icture choice.
 What does Jacob want to learn about Where do Jacob and his sister go? What makes things move? (force, I What does the girl do to her wagon? 	ut? (motion , senses, animals) (library, playground , restaurant) ength, temperature) ((pass, push, pull)	
5. What does Jacob do to the ball? (p	usn, puil, bounce)	
5. What does Jacob do to the ball? (pr Build on comprehension by having students retell	the story.	
 5. What does Jacob do to the ball? (provide the ball?) Build on comprehension by having students retell Standards Connection With students, discuss the story's main messivil provide picture and text support, enabling lesson may be used in other lessons to supper the and post-assessments are available through the standards are avai	the story. sage or main idea as outlined by the comprehension g students to identify the key details or sequence of port other learning activities.	on questions. The comprehension questions of events from the story. Pictures from this
 5. What does Jacob do to the ball? (pr Build on comprehension by having students retell Standards Connection With students, discuss the story's main messivily provide picture and text support, enabling lesson may be used in other lessons to supp Pre- and post-assessments are available through 	the story. sage or main idea as outlined by the comprehension g students to identify the key details or sequence of oort other learning activities. Monthly Checkpoints.	on questions. The comprehension questions of events from the story. Pictures from this
5. What does Jacob do to the ball? (pr Build on comprehension by having students retell Standards Connection With students, discuss the story's main mess will provide picture and text support, enabling lesson may be used in other lessons to support Pre- and post-assessments are available through level 3	the story. sage or main idea as outlined by the comprehension g students to identify the key details or sequence of sort other learning activities. <u>Monthly Checkpoints.</u> <u>Differentiated Tasks</u>	on questions. The comprehension questions of events from the story. Pictures from this
5. What does Jacob do to the ball? (provide the sell?) Build on comprehension by having students retell Standards Connection With students, discuss the story's main mess will provide picture and text support, enabling lesson may be used in other lessons to supp Pre- and post-assessments are available through Level 3 Students will independently read questions	the story. sage or main idea as outlined by the comprehension g students to identify the key details or sequence of bort other learning activities. Monthly Checkpoints. Differentiated Tasks Level 2 • Students will point to or select a picture	on questions. The comprehension questions of events from the story. Pictures from this <u>Level 1</u> • Students will respond to a question by
5. What does Jacob do to the ball? (provide the self?) Build on comprehension by having students retell Standards Connection With students, discuss the story's main mess will provide picture and text support, enabling lesson may be used in other lessons to supp Pre- and post-assessments are available through Level 3 Students will independently read questions about a story and write, speak, or select an approximation	the story. sage or main idea as outlined by the comprehensing students to identify the key details or sequence of the story of the rearning activities. Monthly Checkpoints. Differentiated Tasks Level 2 Students will point to or select a picture from a choice of three in response to a whole wither sevent or short a choice of the set or set of the set or set o	on questions. The comprehension questions of events from the story. Pictures from this <u>Level 1</u> • Students will respond to a question by choosing a single option or errorless picture
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nit Topic: Make It Move		Lesson
	Instructional Targets	
Reading Standards for Informational Text	d and use grade lovel and and any approximite inform	ational materials, including assist studies and
technical texts that are adapted to student re	ading level.	
 Key Ideas and Details: Answer questions to 	show understanding of text.	
Reading Standards for Foundational Skills		
Which of your state standards are aligned to the	hese instructional targets?	
Nonfiction Article 1: "Our Bodies Can Move"	Classroom Activities/Lesson Plan	
	· · · · · · · · · · · · ·	
Students need exposure to both fictional and nont topic.	ictional materials. The unit article presents stud	ents with informational text related to the unit
Read aloud the article, "Our Bodies Can Move." 1	This article introduces the concept of energy and	how energy affects our ability to move.
Articles are presented in advanced higher and re-	gular formats. The advanced article is in a text f	ormat. Higher and regular articles are presented
in both a text-only and symbol-supported format.	Fill-in comprehension questions are also in three	e formats. Level 3 is text only.
Level 2 is symbol-supported. Level 1 is written in	sentence strip format, allowing students to select	t from multiple choices or one errorless picture
choice. Choose the appropriate text and compre-	tension worksneet on the basis of each students	adilities and needs.
 Introduce the article by discussing ways stud 	ents like to move. Ask, "Do you like to dance? I	Do you like to run or go for walks?"
 Read the article aloud to model fluency. Disc 	cuss energy and why we need it. Ask, "What do	our bodies need to move? Where do we get
 energy?" Support reading by using the communication 	board	
 Use independent or paired reading to focus of 	on individual student abilities in reading with text	or supported-text versions.
 Build comprehension with questions and disc 	cussion of the topic.	
Have students complete the comprehension	worksheet to reinforce content vocabulary.	
Standards Connection		
 Informational text has a purpose. In these ar for identifying key details and main ideas. St 	ticles, the purpose is to learn new facts and info udents will also learn to locate and highlight these	mation. The connection activity teaches skills a facts within the text
Pre- and post-assessments are available through	Monthly Checkpoints.	
	Differentiated Tasks	
Level 3	Level 2	Level 1
Level 3 Students will independently read subject	Level 2 Students will read supported and	Evel 1 Students will actively participate in
Students will independently read subject area and technical texts that have been adopted to student coding level.	Students will read supported and shared subject area and technical texts the base base of a state of the text of the state of	Evel 1 Students will actively participate in supported reading of subject area and transition brother in the subject area.
Level 3 Students will independently read subject area and technical texts that have been adapted to student reading level. Students will independently read questions	Everel 2 Students will read supported and shared subject area and technical texts that have been adapted to student reading level	Evel 1 Students will actively participate in supported reading of subject area and technical texts that have been adapted to student ability level
 Level 3 Students will independently read subject area and technical texts that have been adapted to student reading level. Students will independently read questions about a story and write, speak or select an 	 Students will read supported and shared subject area and technical texts that have been adapted to student reading level. Students will point to or select a picture 	Evel 1 Students will actively participate in supported reading of subject area and technical texts that have been adapted to student ability level. Students will respond to a question by
 Students will independently read subject area and technical texts that have been adapted to student reading level. Students will independently read questions about a story and write, speak or select an answer. 	 Students will read supported and shared subject area and technical texts that have been adapted to student reading level. Students will point to or select a picture from a choice of three in response to a 	Evel 1 Students will actively participate in supported reading of subject area and technical texts that have been adapted to student ability level. Student swill respond to a question by choosing a single option or errorless
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 Students will independently read subject area and technical texts that have been adapted to student reading level. Students will independently read questions about a story and write, speak or select an answer. 	 Level 2 Students will read supported and shared subject area and technical texts that have been adapted to student reading level. Students will point to or select a picture from a choice of three in response to a question about a story. 	Level 1 Students will actively participate in supported reading of subject area and technical texts that have been adapted to student ability level. Students will respond to a question by choosing a single option or errorless picture. Notes
Level 3 Students will independently read subject area and technical texts that have been adapted to student reading level. Students will independently read questions about a story and write, speak or select an answer. Resources and Materials Article 1: "Our Bodies Can Move" Comprehension undependent	Ever 2 Students will read supported and shared subject area and technical texts that have been adapted to student reading level. Students will point to or select a picture from a choice of three in response to a question about a story.	Level 1 Students will actively participate in supported reading of subject area and technical texts that have been adapted to student ability level. Students will respond to a question by choosing a single option or errorless picture. Notes
Level 3 Students will independently read subject area and technical texts that have been adapted to student reading level. Students will independently read questions about a story and write, speak or select an answer. Resources and Materials Article 1: "Our Bodies Can Move" Comprehension worksheet Standards Connection Lessons 5 and 6	Students will read supported and shared subject area and technical texts that have been adapted to student reading level. Students will point to or select a picture from a choice of three in response to a question about a story.	Level 1 Students will actively participate in supported reading of subject area and technical texts that have been adapted to student ability level. Students will respond to a question by choosing a single option or errorless picture. Notes
 Students will independently read subject area and technical texts that have been adapted to student reading level. Students will independently read questions about a story and write, speak or select an answer. Resources and Materials Article 1: "Our Bodies Can Move" Comprehension worksheet Standards Connection Lessons 5 and 6	Students will read supported and shared subject area and technical texts that have been adapted to student reading level. Students will point to or select a picture from a choice of three in response to a question about a story.	Level 1 Students will actively participate in supported reading of subject area and technical texts that have been adapted to student ability level. Students will respond to a question by choosing a single option or errorless picture. Notes
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	-F		Lesson
Det	ding Standards for lafe media and T	Instructional Targets	
• Rea • Whi	Range and Level of Text Complexity: Ra technical texts that are adapted to student Key Ideas and Details: Answer questions ding Standards for Foundational Skills Fluency: Read appropriately leveled book ch of your state standards are aligned to	ead and use grade level and age-appropriate infor reading level. to show understanding of text. s with accuracy and fluency. these instructional targets?	mational materials, including social studies and
Non	fiction Article 2: "Only One Speed: FAS]	Classroom Activities/Lesson Plan	
		·	
Stuc	lents need exposure to both fictional and no	onfictional materials. The unit article presents stud	ent with informational text related to the unit topi
Rea	d aloud the article, "Only One Speed: FAST	" This article introduces speed as a measure of h	now fast something goes.
Artic pres Leve choi	eles are presented in advanced, higher and ented in both a text-only and symbol-suppo el 2 is symbol-supported. Level 1 is written ce. Choose the appropriate text and compr	regular formats. The advanced article is in a text rted format. Fill-in comprehension questions are in sentence strip format, allowing students to sele rehension worksheet on the basis of each student	format. Higher and regular articles are also in three formats. Level 3 is text only. ct from multiple choices or one errorless picture s abilities and needs.
•	Read the article aloud to model fluency. D character do fast?" Use independent or paired reading to focu Build comprehension with questions and d	iscuss the characters from the article. Ask, "How s on individual student abilities in reading with text	do the characters move? What can each or supported-text versions.
• • • Pre-	Have students complete the comprehension Standards Connection Research is a process that allows students connection guide form to do so. Use the Standards Connection from Lesso and post-assessments are available throug	scussion of the topic. on worksheet to reinforce content vocabulary. s to learn more about a topic. Extend learning thro n 5 to support comprehension in identifying key do on Monthly Checkpoints.	ugh a short research project, using the stails in the article.
• • Pre-	Have students complete the comprehension Standards Connection Research is a process that allows students connection guide form to do so. Use the Standards Connection from Lesso and post-assessments are available throug	scussion of the topic. on worksheet to reinforce content vocabulary. to learn more about a topic. Extend learning thro on 5 to support comprehension in identifying key do the	ugh a short research project, using the stails in the article.
Pre-	Have students complete the comprehension Standards Connection Research is a process that allows students connection guide form to do so. Use the Standards Connection from Lesso and post-assessments are available throug	Iscussion of the topic. on worksheet to reinforce content vocabulary. to learn more about a topic. Extend learning thro on 5 to support comprehension in identifying key do the support comprehension in identifying key do th	ugh a short research project, using the stails in the article.
Pre-	Have students complete the comprehension Flave students complete the comprehension Standards Connection Research is a process that allows students connection guide form to do so. Use the Standards Connection from Lesso and post-assessments are available throug all 3 Students will independently read subject area and technical texts that have been adapted to student reading level. Students will independently read questions about a story and write, speak or select an answer.	 Iscussion of the topic. In worksheet to reinforce content vocabulary. Is to learn more about a topic. Extend learning thrown 5 to support comprehension in identifying key do the support comprehension in identifying key do the support comprehension. Differentiated Tasks Level 2 Students will read supported and shared subject area and technical texts that have been adapted to student reading level. Students will point to or select a picture from a choice of three in response to a question about a story. 	ugh a short research project, using the etails in the article. <i>Level 1</i> • Students will actively participate in supported reading of subject area and technical texts that have been adapted to student ability level. • Students will respond to a question by choosing a single option or errorless picture.
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	Instructio	nal Targoto	Lesso
Reading Standards for Foundational Skills	Instructio	nai Taiyets	
• Phonics and Word Recognition: Read c	ommon sight words (e.g.,	, high-frequency items fro	m Dolch/Fry list and commonly occurring words
in the environment). Use letter-sound kno	wledge and patterns to de	ecode words.	
 Conventions of Standard English: Gene 	rate a written sentence w	vith appropriate capitaliza	tion, punctuation and spelling.
Which of your state standards are aligned to	these instructional tar	gets?	· · · · · · · · · · · · · · · · · · ·
High-Frequency Spelling List 1	Classroom Activ	vities/Lesson Plan	
Students need multiple and varied experiences experiences include writing and spelling words	with high-frequency word within meaning-making s	as before they are automatic entences and as part of s	atically recognized and read. These lesson ound-symbol associations.
Spalling List 1. make and two three them	uont -		
Spennig List I. make, one, two, three, them, v	ranı		
Select spelling list appropriate for each stu	dent (text or pictures).		
With your students, review words from the	story and the word wall.	labooto	
 Students will practice writing words on dot 	led line of letter till-in wor	KSHEETS.	
Choose the most appropriate worksheet on the	basis of each student's n	needs. Level 3 is text only	. Level 2 is symbol-supported. Level 1 is
written in sentence strip format for students who	o may require alternative	torms of responding.	
Follow up spelling activities with a "spelling test	" Encourage students to	write and use words in c	ther reading and writing contexts.
Additional ideas for word study instruction are p	rovided in the ULS Instru	uctional Guides: Word	Study.
Fill-in	and a fill in which	Word Study	we the second to be used at the second study.
 Students will practice writing words in sent cutout words or pictures. 	ences of till in with	Students will anal Students may write	e words or use cutout words or pictures.
1. I have nose. (one)		1. What word sta	ts like mouse? (make)
1. I have nose. (one) 2. I can it move up and down. (ma	ke)	 What word sta What word rhy What word and 	ts like <i>mouse</i> ? (make) mes with shoe? (two)
1. I have nose. (one) 2. I can it move up and down. (ma 3. I have hands. (two) 4. I can clan together (them)	ke)	 What word sta What word rhy What word end What word rhy 	ts like <i>mouse</i> ? (make) mes with shoe? (two) Is like <i>drum</i> ? (them) mes with <i>none</i> ? (one)
1. I have nose. (one) 2. I can it move up and down. (ma 3. I have hands. (two) 4. I can clap together. (them) 5. One plus two equals (three)	ke)	 What word sta What word rhy What word end What word rhy What word rhy What word rhy 	ts like <i>mouse</i> ? (make) mes with <i>shoe</i> ? (two) Is like <i>drum</i> ? (them) mes with <i>none</i> ? (one) mes with <i>see</i> ? (three)
1. I have nose. (one) 2. I can it move up and down. (ma 3. I have hands. (two) 4. I can clap together. (them) 5. One plus two equals (three) 6. Do you to move with me? (wan	ke) t)	 What word sta What word rhy What word end What word rhy What word rhy What word rhy What word end 	ts like <i>mouse</i> ? (make) mes with shoe? (two) Is like <i>drum</i> ? (them) mes with <i>none</i> ? (one) mes with see? (three) Is like <i>nut</i> ? (want)
1. I have nose. (one) 2. I can it move up and down. (ma 3. I have hands. (two) 4. I can clap together. (them) 5. One plus two equals (three) 6. Do you to move with me? (wan	ke) t) Differenti	1. What word sta 2. What word rhy 3. What word end 4. What word rhy 5. What word rhy 6. What word end ated Tasks	ts like <i>mouse</i> ? (make) mes with shoe? (two) Is like <i>drum</i> ? (them) mes with <i>none</i> ? (one) mes with <i>see</i> ? (three) Is like <i>nut</i> ? (want)
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1. I have nose. (one) 2. I can it move up and down. (ma 3. I have hands. (two) 4. I can clap together. (them) 5. One plus two equals (three) 6. Do you to move with me? (wan <u>Level 3</u> Students will independently read high-frequency words. Students will independently read and write words by applying letter-sound correspondences. Students will demonstrate conventions of written language, including appropriate initial capitalization, ending ounctuation	ke) Differenti Level 2 • Students will sele high-frequency we words. • Students will sele word from a set o cues from letter-s • Students will spel letter-sound matc	1. What word sta 2. What word rhy 3. What word end 4. What word end 4. What word rhy 5. What word rhy 6. What word rhy 6. What word end ct or point to a named f three words, using ound correspondence. I familiar words with hes.	ts like mouse? (make) mes with shoe? (two) Is like drum? (them) mes with none? (one) mes with see? (three) Is like nut? (want) Level 1 • Students will select a named high-frequency word from a single option choice. • Students will attend to activities that apply letter-sound correspondence to the reading of words.
1. I have nose. (one) 2. I can it move up and down. (ma 3. I have hands. (two) 4. I can clap together. (them) 5. One plus two equals (three) 6. Do you to move with me? (wan bevel 3 Students will independently read high-frequency words. Students will independently read and write words by applying letter-sound correspondences. Students will demonstrate conventions of written language, including appropriate initial capitalization, ending punctuation and common spelling.	 bit bifferenti Level 2 Students will sele high-frequency wwwords. Students will sele word from a set o cues from letter-s Students will spel letter-sound matc 	1. What word sta 2. What word rhy 3. What word end 4. What word end 4. What word rhy 5. What word rhy 6. What word end ated Tasks ct or point to a named ord from a set of three ct or point to a named f three words, using ound correspondence. I familiar words with hes.	ts like mouse? (make) mes with shoe? (two) Is like drum? (them) mes with see? (one) mes with see? (three) Is like nut? (want)
1. I have nose. (one) 2. I can it move up and down. (ma 3. I have hands. (two) 4. I can clap together. (them) 5. One plus two equals (three) 6. Do you to move with me? (wan 1. Can clap to move with me? (wan 1. Can clapto move with 1.	ke) Differenti Level 2 Students will sele high-frequency w words. Students will sele word from a set o cues from letter-s Students will spel letter-sound matc	1. What word sta 2. What word rhy 3. What word end 4. What word rhy 5. What word rhy 6. What word rhy 6. What word end ated Tasks ct or point to a named ord from a set of three ct or point to a named f three words, using ound correspondence. I familiar words with hes.	ts like mouse? (make) mes with shoe? (two) Is like drum? (them) mes with none? (one) mes with see? (three) Is like nut? (want)
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1. I have nose. (one) 2. I can it move up and down. (ma 3. I have hands. (two) 4. I can clap together. (them) 5. One plus two equals (three) 6. Do you to move with me? (wan 2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	ke) Differenti Level 2 • Students will sele high-frequency w words. • Students will sele word from a set o cues from letter-s • Students will spel letter-sound matc	1. What word sta 2. What word eny 3. What word eny 4. What word eny 5. What word eny 6. What word end ated Tasks ct or point to a named ord from a set of three ct or point to a named f three words, using ound correspondence. I familiar words with hes.	ts like mouse? (make) mes with shoe? (two) Is like drum? (them) mes with none? (one) mes with see? (three) Is like nut? (want)

			Lesso
Peading Standards for Equindational Skills	Instruction	nal Targets	
 Phonics and Word Recognition: Read co in the environment). Use letter-sound know Standards for Language 	ommon sight words (e.g., wledge and patterns to de	high-frequency items fro ecode words.	m Dolch/Fry list and commonly occurring words
 Conventions of Standard English: Gene Which of your state standards are aligned to 	rate a written sentence w these instructional tar	vith appropriate capitaliza	tion, punctuation and spelling.
		J J J J J J J J J J	
High-Frequency Spelling Lists 2 and 3	Classroom Activ	ities/Lesson Plan	
Students need multiple and varied experiences experiences include writing and spelling words v	with high-frequency word within meaning-making se	Is before they are autom entences and as part of s	atically recognized and read. These lesson sound-symbol associations.
This lesson addresses words from Lists 2 and 3	. Choose the most appro	opriate worksheet on the	basis of each student's needs. Level 3 is text
only. Level 2 is symbol-supported. Level 1 is w	ritten in sentence strip fo	rmat for students who m	ay require alternative forms of responding.
Follow up spelling activities with a "spelling test.	" Encourage students to	write and use words in o	other reading and writing contexts.
Spelling List 2: that, ball, girl, high, over. fast		Spelling List 3: alona	, body, move, now, pull, really
Fill-In		Fill-In	· · · · · · · · · · · · · · · · · · ·
 Students will practice writing words in senter 	ences or fill in with	Students will prace	tice writing words in sentences or fill in with
cutout words or pictures.		cutout words or p	ictures.
1. Joelle is a (girl)		1. We are going	for a walk (now)
2. She likes to play (ball)		2. You should co	me (along)
3. Joelle can run (fast)	4	3. It will be	_fun. (really)
4. She can throw the ball in the sky	. (high)	4. We will	our legs. (move)
6 . loelle can bit the ball that fence	(over)	6 Walking is god	d for your (body)
Word Study	(010)	Word Study	
· Students will analyze the word to complete	the word study.	Students will anal	yze the word to complete the word study.
Students may write words or use cutout wo	ords or pictures.	Students may write	te words or use cutout words or pictures.
1 What word starts like game? (girl)		1 What word sta	rts like ring? (really)
2. What word starts like bug? (ball)		2. What word sta	rts like monkey? (move)
3. What word starts like fun? (fast)		What word sta	rts like baby? (body)
4. What word rhymes with sigh? (high)		What word rhy	mes with wrong? (along)
5. What word rhymes with mat? (that)		What word rhy	mes with cow? (now)
6. What word ends like river? (over)		6. What word end	ds like tool? (pull)
Laurel 2	Differentia	ated Tasks	
Studente will independently read	Level 2	at or point to a named	Level 1 • Students will select a named
high-frequency words	 Students will select high-frequency was 	ord from a set of three	 Students will select a named high-frequency word from a single option
Students will independently read and	words.		choice.
write words by applying letter-sound	Students will select	ct or point to a named	Students will attend to activities that
correspondences	word from a set of	f three words, using	apply letter-sound correspondence to the
concopondonocon	cues from letter-se	ound correspondence.	reading of words.
Students will demonstrate conventions of	Students will spell	tamiliar words with	
 Students will demonstrate conventions of written language, including appropriate initial equilable in the students. 		nes.	
 Students will demonstrate conventions of written language, including appropriate initial capitalization, ending punctuation and common spelling 	letter-sound match		
Students will demonstrate conventions of written language, including appropriate initial capitalization, ending punctuation and common spelling. Resources and Material	letter-sound match		Notes

init Topic: Make It Move			
		Instructional Targete	Lesson
Math Standards for Numbers and Operations in Bas Understand the place value system: Compare re Use place value understanding and properties Illustrate concepts of multiplication (equal shares) Building Blocks to Counting and Cardinality: F Which of your state standards are aligned to these i	e Ten multi-digit number of operations to and division (equ Read and write nu nstructional targ	rs by use of symbols: >, < or =. p perform multi-digit arithmetic: Solve a ual groups) with multi-digit numbers. merals. Count a number of objects. gets?	ddition and subtraction problems up to 30, 50 and 100.
	Clas	sroom Activities/Lesson Plan	
Number Sense: Puir the wagon Number Sense: Puir the wagon to each student; however, all problems should be prese beyond these lessons to include generalization in relate intended for students who can write numbers and solve manipulatives or teacher support. Tracing lines are ava activities. Communication devices can be programmed errorless number choice. In this lesson, Emily and Chri- students how weight affects the force needed to move e moving the wagon or container with various objects loar harder it is to push or pull.	unting and simple anted in the conte d real-world appl problems at a muliable, but hand to support stude s are putting thing an object. If poss ded inside. Emple	e math calculations: addition, subtraction ext of the simulated real-world scenarios o ications. Choose the most appropriate ac ore independent level. Students using Le wer-hand assistance is appropriate. Num nts in counting the pictures and manipulat gs in a wagon and pulling the wagon arou bile, bring in a wagon, or other type of cor nasize that the more you put in the wagon	and early multiplication. Problems must be individualize f the lesson. Mathematics instruction may be expanded tivity on the basis of each student's needs. Level 3 is vel 2 worksheets will need support, including bers and manipulatives are available for Level 1 ives. Students may be given multiple choices or one nd. Before working with these scenarios, explore with tainer on wheels, and allow students to experiment with or container, the heavier it is and the heavier it is, the
Numbers and Counting		Using a Calculato	r
Number Sense 4 and 5: Counting an Numbers to 20 Number Sense 6: How Many? 1–10 Number Sense 7: How Many? 1–10 Number Sense 8: Adding to 10 Vertical Number Sense 8: Adding to 10 Vertical Number Sense 9: Adding to 20 Vertical Number Sense 11: Adding to 20 Vertical Number Sense 11: Adding 2 Oigt Numbers to 20 Vertical Number Sense 13: Adding 2-Digit Numbers to 50 - No Number Sense 14: Adding 2-Digit Numbers to 50 - No Number Sense 16: Adding 2-Digit Numbers to 50 - No Number Sense 16: Adding 2-Digit Numbers to 50 - No Number Sense 17: Subtracting to 10 Vertical Number Sense 17: Subtracting to 10 Vertical Number Sense 17: Subtracting to 10 Vertical Number Sense 18: Subtracting to 10 Horizontal Number Sense 19: Subtracting to 10 Horizontal Number Sense 19: Subtracting 2-Digit Numbers to 50 - Number Sense 21: Subtracting 2-Digit Numbers to 50 - Number Sense 21: Subtracting 2-Digit Numbers to 50 - Number Sense 22: Subtracting 2-Digit Numbers to 50 - Number Sense 22: Subtracting 2-Digit Numbers to 50 - Number Sense 23: Subtracting 2-Digit Numbers to 50 - Number Sense 24: Subtracting 2-Digit Numbers to 50 - Number Sense 25: Subtracting 2-Digit Numbers to 50 - Rumber Sense 25: Subtracting 2-Digit Numbers to 50 - Number Sense 26: Subtracting 2-Digit Numbers to 50 - Number Sense 27: Subtracting 2-Digit Numbers to 50 - Rumber Sense 27: Subtracting 2-Digit Numbers to 50 - Rumber Sense 27: Subtracting 2-Digit Numbers to 50 - Number Sense 27: Subtracting 2-Digit Numbers to 50 - Number Sense 27: Subtracting 2-Digit Numbers to 50 - Number Sense 27: Subtracting 2-Digit Numbers to 50 - Number Sense 27: Subtracting 2-Digit Numbers to 50 - Number Sense 27: Subtracting 2-Digit Numbers to 50 - Number Sense 27: Subtracting 2-Digit Numbers to 50 - Number Sense 27: Subtracting 2-Digit Number Sense 20 - No Sense 20 - No Sense 20 -	Carrying & Learning How rying • No Borrowing hing & Learning • Borrowing ipulatives to simu math instruction ULS Instruction ULS Instruction	Number Sense 24 Number Sense 24 Number Sense 25 Number Sense 25 Number Sense 28 Comparing Numb Number Sense 29 Number Sense 30 Number Sense 30 Number Sense 31 to Carry Multiplication/Div Number Sense 33 Number Sense 33 How to Borrow late problem scenarios. Use a VELCRO® are provided in the ULS Instructional To al Guides: Mathematics.	Locating ToW to Use a Collocation Fraction Fraction Fraction Fraction Fraction Fraction Using a Calculator - Adding to 50 Teaching How to Use a Calculator - Subtraction to Using a Calculator - Subtracting to 50 Using a Calculator - Subtracting to 100 ers Teaching Comparing Numbers Comparing Numbers to 50 Comparing Numbers to 50 Comparing Numbers to 100 sion Modeling Multiplication Modeling Divisionsensitive board to model math problems. Number ols: Math Pack/Numbers.
	-	Differentiated Tasks	
Level 3 Students will count and read numbers to 100. Students will compare numbers to 100 to determine more, less or equal. Students will solve addition and subtraction problems to 50 and 100. Students will model and solve simple multiplication and division problems in the context of a real-world scenario.	Level 2 Students two-digit Students to deterr Students problem Students	s will count and read one-digit and numbers. s will compare numbers to 20 with a mode nine more, less or equal. s will solve addition and subtraction s to 20. s will model groups to multiply or divide.	Level 1 Students will use a sequencing voice output device to count to a given number. Students will compare two sets of objects to determine more, less or equal. Students will count sets of objects within additio or subtraction problems through an active participation response (e.g., voice output device eye gaze choice board). Students will count a set of objects in a group through an active participation response (e.g.,
			voice output device, eye gaze choice board).
Popouroon and Matariala			NULES

Day 1	Day 2	Day 3	Day 4	Day 5
Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes
Pre-assessment Checkpoints Combined Content (Level 1) Content Understanding (2 & 3) (5-10 minutes/student)	Whole Group (15 minutes) Lesson 1: Introduce book with picture walk and background building activities. Small Group (30 minutes) (3 groups x 10 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 2: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 3: Chapter 1- build background, comprehension. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 5: Chapter 2 – build background, comprehension Small Group (30 minutes) Read news-2-you newspaper an complete news-2-you worksheet Record completed worksheets o work completion checklist.
Language Arts block: 50 minutes Whole Group (15 minutes) Lesson 3: Chapter 1- build background, comprehension. Small Group (30 minutes) Read news-2-you worksheets. Record complete news-2-you worksheets. Record completion checklist.	Language Arts block: 50 minutes Whole Group (15 minutes) Lesson 5: Chapter 2 – build background, comprehension Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Language Arts block: 50 minutes Whole Group (15 minutes) Lesson 7: Chapter 3 – build background, comprehension Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you owrksheets. Record completed worksheets on work completion checklist.	Language Arts block: 50 minutes Whole Group (15 minutes) Lesson 9: Chapter 4 – build background, comprehension Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Language Arts block: 50 minutes Whole Group (15 minutes) Lesson 19: Math Story Problems Small Group (30 minutes) Read news-2-you newspaper an complete news-2-you worksheet Record completed worksheets o work completion checklist.

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Day 1	Day 2	Day 3	Day 4	Day 5
Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes
Whole Group (15 minutes) Lesson 1: Introduce book with picture walk and background building activities. Small Group (30 minutes) (3 groups x 10 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 2: Rereat book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 7: Chapter 3 – build background, comprehension Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 9: Chapter 4 – build background, comprehension Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 11: Chapter 5 – build background, comprehension Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets Record completed worksheets on work completion checklist.
Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes	Language Arts block: 50 minutes
Whole Group (15 minutes) Lesson 1: Introduce book with picture walk and background building activities. Small Group (30 minutes) (3 groups x 10 minutes) (3 groups x 10 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 2: Reread book and answer comprehension questions. Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 11: Chapter 5 – build background, comprehension Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Whole Group (15 minutes) Lesson 13: Chapter 6 – build background, comprehension Small Group (30 minutes) Read news-2-you newspaper and complete news-2-you worksheets. Record completed worksheets on work completion checklist.	Post-assessment Checkpoints Combined Content (Level 1) Content Understanding (2 & 3) (5-10 minutes/student)

· · · · · · · · · · · · · · · · · · ·			Lesson
Poading Standards for Literature	Instruction	nal Targets	
Reading Standards for Literature Range and Level of Text Complexity: Fxt	perience grade level and	age-appropriate literature	e materials, including poems, biographies
chapter books, fiction and nonfiction works	that are adapted to stude	ent reading level.	· · · · · · · · · · · · · · · · · · ·
Which of your state standards are aligned to	these instructional targ	jets?	
	Classroom Activi	itios/Losson Plan	
Leveled Book: Watch Your Sister!	Classicolii Activi		
Lesson 1 provides a simple book in three distinc level based on individual abilities, needs or readi (captioned). Select the level appropriate for eac	t reading levels. Early re ng goals. This Leveled I h student.	aders may engage in the Book is presented in three	same content when selecting the appropriate e leveled formats: Level D, Level B and Level aa
The content of the Leveled Book features a fami curious toddler explores the house while her bro common things in a home that are hot or cold. T	liar theme of babysitting ther tries to keep her safe hey should be able to ide	for a younger sibling. Th e. When they have finish entify things that could be	e unit topic of hot and cold is addressed as a ed the book, students should be able to describe a danger to someone and why.
 Introduce the story by talking about things in hot? What in the kitchen is cold?" 	n each room of the house	e that are hot or cold. As	k, "What can you think of in the kitchen that is
 On the first reading, do a picture walk. Note hot or cold in every room of the house. Dis can be too hot or too cold to touch?" 	e pictures of the items en cuss safety issues when	countered in each room things are too hot or too	in the story. Emphasize that there is something cold. Ask, "Are there things in your house that
 Read the story aloud to model fluency. After As a group, reread the story with pauses for students with supports for page turning and During independent or paired reading, focus students may read different levels for differe Support student reading, using the community Follow up reading with discussion on respond What things in your house could be danger 	er reading the story, ask of r key words to encourage interaction while they an s on individual student re ent purposes each day w incation board to do so. nsibility. Ask, "Have you pus?" Emphasize those	questions about safety fo e participation. Encourag e reading. ading abilities with text o hen building reading skill ever helped watch a sma items that are hot or cold	r people of different ages. e choral reading of the repeated line. Provide r supported-text versions. It is likely that s. all child or a baby? What makes it hard to do?
Nord-recognition cards for this lesson support hi ligh Frequency Words: List 1: or, from, out, with, very, for List 2: says, too, these, thing, tell, feel List 3: goes, sometimes, change, different, water Standards Connection Students with reading challenges may acqu ways to "read" by using the text-to-speech by ways to "read" by using the text-to-speech by	gh-frequency words with ; body ire more information fron recision of this story and t	in the unit reading materi n text when it is read alou he PowerPoint® show.	als. Id. The connection lesson explores alternative
Additional ideas for word study instruction are pr process continues in the higher grades. Word w	ovided in the ULS Instru all activities are included	ictional Guides: Word S in this guide.	tudy. For some students, the "learning to read"
Comprehension questions from Leveled Boo students at all levels gain meaning.	ks are based on the hig	phest level in the series	. These books may be read aloud to help
Pre- and post-assessments are available throug	h Monthly Checkpoints.		
evel 3	Differentia	ated Lasks	Level 1
 Students will independently read literature forms, including chapter books, biographies, poems, fiction and nonfiction works that have been adapted to student reading level. 	 Students will read literature forms, in biographies, poem works that have be reading level. 	supported and shared cluding chapter books, is, fiction and nonfiction een adapted to student	 Students will actively participate in supported reading of literature forms, including chapter books, biographies, poems, fiction and nonfiction works that have been adapted to student ability level.
Resources and Materials	3		Notes
Leveled Book: Watch Your Sister!		Additional ideas for wor	d study instruction are provided in the

Reading Standards for Literature Key Ideas and Details: Answer question: events of a story. 		
Which of your state standards are allowed to	s to explain the main ideas, details and inferences	of a story. Summarize the main theme and
which of your state standards are alighed t	o these instructional targets?	
	Classroom Activities/Lesson Plan	
Read and Answer: Watch Your Sister!		
Using both industrations and text, to locate answ formats. Question responses may also provide increase students' skills in multiple areas of co After reading Watch Your Sister!, use the follow Choose the most appropriate worksheet on the written in sentence strip format, allowing stude Build vocabulary knowledge of the identified w sentences for meaning. Make connections bet sleep stove sister cold 1. Dan watches his (sist 2. The fire is too (hot)	ets to duestions. Students recognize types of resp e students with a foundation for story retell. Activiti mprehension. ving comprehension activity. Students may respor basis of each student's needs. Level 3 is text only ts to select from multiple choices or one errorless ords. Picture support cards are provided for reading ween vocabulary and each student's experiences. hot r)	to use appropriate to <i>wha</i> , <i>wha</i> and <i>where</i> es should be repeated throughout the unit to d to questions both orally and in writing. y. Level 2 is symbol-supported. Level 1 is picture choice. g recognition. Use the words in additional
3. The ice is too (cold) 4. Mera knocks over the 5. Mera lies down to (sle Standards Connection Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning.	drink) ep) retelling and summarizing skills. Build communica oks are based on the highest level in the series	tion skills by using the augmentative supports . These books may be read aloud to help
3. The ice is too (cold) 4. Mera knocks over the 5. Mera lies down to (sle Standards Connection Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning. Pre- and post-assessments are available through	drink) ep) retelling and summarizing skills. Build communica oks are based on the highest level in the series gh Monthly Checkpoints.	tion skills by using the augmentative supports •. These books may be read aloud to help
3. The ice is too (cold) 4. Mera knocks over the 5. Mera lies down to (sle Standards Connection Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning. Pre- and post-assessments are available throu	drink) ep) retelling and summarizing skills. Build communica oks are based on the highest level in the series gh Monthly Checkpoints. 	tion skills by using the augmentative supports 5. These books may be read aloud to help
3. The ice is too (cold) 4. Mera knocks over the 5. Mera lies down to (sle Standards Connection Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning. Pre- and post-assessments are available throu Level 3 Obdoct will index a doubt meand	drink) p) retelling and summarizing skills. Build communica oks are based on the highest level in the series gh Monthly Checkpoints. Differentiated Tasks Level 2 Chudents will exist to constant and the	tion skills by using the augmentative supports These books may be read aloud to help Level 1
 The ice is too (cold) Mera knocks over the Mera lies down to (sle Standards Connection Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning. Pre- and post-assessments are available throu. Students will independently read questions about a story and write, speak or select an answer. Students will summarize a story, including the main idea, events and key details. 	drink) p) retelling and summarizing skills. Build communica oks are based on the highest level in the series gh Monthly Checkpoints. Differentiated Tasks Level 2 • Students will point to or select a picture from a choice of three in response to a question about a story. • Students will use picture supports to retell key details and events from a story.	 tion skills by using the augmentative supports These books may be read aloud to help Level 1 Students will respond to a question by choosing a single option or errorless picture. Students will retell key details and events from a story through an active participation response (e.g., voice output device, eye gaze choice board).
3. The ice is too (cold) 4. Mera knocks over the 5. Mera lies down to (sle Standards Connection Use the format of this connection to build needed for each student. Comprehension questions from Leveled Bo students at all levels gain meaning. Pre- and post-assessments are available throu. Level 3 Students will independently read questions about a story and write, speak or select an answer. Students will summarize a story, including the main idea, events and key details.	drink) epp) retelling and summarizing skills. Build communica oks are based on the highest level in the series gh Monthly Checkpoints. Differentiated Tasks Level 2 • Students will point to or select a picture from a choice of three in response to a question about a story. • Students will use picture supports to retell key details and events from a story.	tion skills by using the augmentative supports

Grade Band: Middle School Unit 22 Unit Target: Physical Science Unit Topic: Is It Hot? Is It Cold? Lesson 3 Instructional Targets **Reading Standards for Literature** Range and Level of Text Complexity: Experience grade level and age-appropriate literature materials, including poems, biographies, chapter books, fiction and nonfiction works that are adapted to student reading level. Key Ideas and Details: Answer questions to explain the main ideas, details and inferences of a story. Which of your state standards are aligned to these instructional targets? Classroom Activities/Lesson Plan Chapter 1: Hot and Cold The title of the Chapter Book is Let's Learn About Hot and Cold. The first chapter, Hot and Cold, describes how hot and cold temperatures are part of many aspects of everyday life. The chapter explains how temperature is a factor in everything from washing dishes to going outside. The concept of how items may change due to different temperatures is introduced in this chapter. Chapter books present a "reading to learn" experience. Therefore, students may read independently, in a shared reading experience or books may be read to them. Present students with one chapter at a time for reading and comprehension instruction. After each page is read, ask the discussion question that appears in italics at the bottom of the page. Focus on pictures to reinforce understanding. Repeated readings are encouraged. Suggested Reading Levels for this chapter include: Levels H/I, presented in a text format, and E, presented in both text and symbol-supported formats. Read and Answer Comprehension activities extend beyond "checking" what students remember from reading. During instruction, students learn to refer to the book, using both illustrations and text, to locate answers to questions. Students recognize types of responses appropriate to who, what and where formats. Question responses may also provide students with a foundation for story retell. Activities should be repeated throughout the unit to increase students' skills in multiple areas of comprehension. Select the level of comprehension questions appropriate to each student. Comprehension questions are also in three formats. Level 3 is text only. Level 2 is symbol-supported. Level 1 is written in sentence strip format, allowing students to select from multiple choices or one errorless picture choice Build comprehension and vocabulary through discussions. G Standards Connection These standards connection lessons are designed to build summarizing skills and are applicable to all chapters. Using the first standards connection form, determine whether this book is a work of fiction or nonfiction. Select the additional standards connection lesson based on whether the chapter is a fictional format that has a story line or an informational text that includes facts and historical events. The first two sets of comprehension questions are derived from the lower levels of text. An advanced level of mixed questions is provided in text-only format. Pre- and post-assessments are available through Monthly Checkpoints **Differentiated Tasks** Level 3 Level 2 Level 1 Students will independently read literature ٠ Students will read supported and shared Students will actively participate in supported forms, including chapter books, literature forms, including chapter books, reading of literature forms, including chapter biographies, poems, fiction and nonfiction biographies, poems, fiction and nonfiction books, biographies, poems, fiction and works that have been adapted to student works that have been adapted to student nonfiction works that have been adapted to reading level. student ability level. reading level. Students will independently read questions Students will point to or select a picture Students will respond to a question by about a story and write, speak or select an from a choice of three in response to a choosing a single option or errorless picture. answer question about a story **Resources and Materials** Notes Chapter 1: Hot and Cold Communication board Comprehension worksheets and sentence strips (multiple-choice and fill-in); Advanced questions Standards Connection Lessons 3, 5, 7, 9, 11, 13 © 2014 n2y ULS, March 2014

Grade Band: Middle School Unit 22 Unit Target: Physical Science Unit Topic: Is It Hot? Is It Cold? Lesson 5 Instructional Targets **Reading Standards for Literature** Range and Level of Text Complexity: Experience grade level and age-appropriate literature materials, including poems, biographies, chapter books, fiction and nonfiction works that are adapted to student reading level. Key Ideas and Details: Answer questions to explain the main ideas, details and inferences of a story. Which of your state standards are aligned to these instructional targets? Classroom Activities/Lesson Plan Chapter 2: Baking Cookies The title of the Chapter Book is Let's Learn About Hot and Cold. The second chapter, Baking Cookies, focuses on the use of heat when baking cookies in an oven. The changes in the cookies being baked are described. Issues of safety are also emphasized. Chapter books present a "reading to learn" experience. Therefore, students may read independently, in a shared reading experience or books may be read to them. Present students with one chapter at a time for reading and comprehension instruction. After each page is read, ask the discussion question that appears in italics at the bottom of the page. Focus on pictures to reinforce understanding. Repeated readings are encouraged. Suggested Reading Levels for this chapter include: Levels H/I, presented in a text format, and E, presented in both text and symbol-supported formats Read and Answer Comprehension activities extend beyond "checking" what students remember from reading. During instruction, students learn to refer to the book, using both illustrations and text, to locate answers to questions. Students recognize types of responses appropriate to who, what and where formats. Question responses may also provide students with a foundation for story retell. Activities should be repeated throughout the unit to increase students' skills in multiple areas of comprehension. Select the level of comprehension questions appropriate to each student. Comprehension questions are also in three formats. Level 3 is text only. Level 2 is symbol-supported. Level 1 is written in sentence strip format, allowing students to select from multiple choices or one errorless picture choice. Build comprehension and vocabulary through discussions. Standards Connection These standards connection lessons are designed to build summarizing skills and are applicable to all chapters. Using the first standards connection form, determine whether this book is a work of fiction or nonfiction. Select the additional standards connection lesson based on whether the chapter is a fictional format that has a story line or an informational text that includes facts and historical events The first two sets of comprehension questions are derived from the lower levels of text. An advanced level of mixed questions is provided in text-only format. Pre- and post-assessments are available through Monthly Checkpoints. **Differentiated Tasks** Level 3 Level 2 Level 1 Students will independently read literature Students will read supported and shared Students will actively participate in supported forms, including chapter books, literature forms, including chapter books, reading of literature forms, including chapter biographies, poems, fiction and nonfiction biographies, poems, fiction and nonfiction books, biographies, poems, fiction and works that have been adapted to student nonfiction works that have been adapted to works that have been adapted to student reading level. student ability level. reading level. Students will independently read questions Students will point to or select a picture Students will respond to a question by about a story and write, speak or select an from a choice of three in response to a choosing a single option or errorless picture. answer question about a story. **Resources and Materials** Notes Chapter 2: Baking Cookies Communication board Comprehension worksheets and sentence strips (multiple-choice and fill-in items); Advanced questions Standards Connection Lessons 3, 5, 7, 9, 11, 13 © 2014 n2y ULS, March 2014

		Lessor
Reading Standards for Literature Range and Level of Text Complexity: Experienc fiction and nonfiction works that are adapted to stu Key Ideas and Details: Answer questions to expla Which of your state standards are aligned to th	e grade level and age-appropriate literature material dent reading level. ain the main ideas, details and inferences of a story. ese instructional targets?	s, including poems, biographies, chapter books,
	Classroom Activities/Lesson Plan	
Chapter 3: Got a Fever?		
 The tille of the Chapter Book is Let's Learn about 1 The difference in body temperature when someone Chapter books present a "reading to learn" ere be read to them. Present students with one of the each page is read, ask the discussion of Repeated readings are encouraged. Suggested Reading Levels for this chapter in formats. Read and Answer Comprehension activities extend beyond "checking both illustrations and text, to locate answers to que responses may also provide students with a found multiple areas of comprehension questions Level 1 is writtle choice. Build comprehension and vocabulary through Standards Connection These standards connection lessons are des connection form, determine whether this bool the chapter is a fictional format that has a sto The first two sets of comprehension questions 	Hot and Cold. The third chapter, Got a Fever', desc e is well and when someone is ill is discussed. operience. Therefore, students may read independe chapter at a time for reading and comprehension insi uestion that appears in italics at the bottom of the pa- clude: Levels H/I, presented in a text format, and E, g" what students remember from reading. During insi stions. Students recognize types of responses app ation for story retell. Activities should be repeated the appropriate to each student. Comprehension questi en in sentence strip format, allowing students to sele in discussions.	ribes what happens when Jonah is ill with a fever. ntly, in a shared reading experience or books may ruction. ige. Focus on pictures to reinforce understanding. presented in both text and symbol-supported struction, students learn to refer to the book, using roughout the unit to increase students' skills in ons are also in three formats. Level 3 is text only. ct from multiple choices or one errorless picture to all chapters. Using the first standards nal standards connection lesson based on whether d historical events.
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text-only format. Pre- and post-assessments are available through and post-assessments are available through a second se	Monthly Checkpoints. Differentiated Tasks Level 2 • Students will read supported and shared literature forms, including chapter books, biographies, poems, fiction and nonfiction works that have been adapted to student reading level. • Students will point to or select a picture from a choice of three in response to a question about a story.	 Level 1 Students will actively participate in support reading of literature forms, including chapte books, biographies, poems, fiction and nonfiction works that have been adapted to student ability level. Students will respond to a question by choosing a single option or errorless picture
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	Instructional Targete	Lesso
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 Range and Level of Text Complexity: Expe books, fiction and nonfiction works that are ad 	mence grade level and age-appropriate literature ma dapted to student reading level.	ateriais, including poems, biographies, chapter
 Key Ideas and Details: Answer questions to 	explain the main ideas, details and inferences of a	story.
Which of your state standards are aligned to th	ese instructional targets?	
Chanter 4: Icy Juice Cuns	Classroom Activities/Lesson Plan	
The title of the Chapter Book is <i>Let's Learn About</i>	Hot and Cold The fourth chapter Icv Juice Cups d	escribes the changes that occur when something
frozen. Changes from liquid to solid, as the result	of cold, are described as Jonah freezes juice in cup	S.
Chapter books present a "reading to learn" ex	perience. Therefore, students may read independe	ntly, in a shared reading experience or books may
be read to them. Present students with one of	chapter at a time for reading and comprehension ins	truction.
Repeated readings are encouraged.	desitor that appears in traites at the bottom of the pa	age. Focus on pictures to reinforce understanding.
Suggested Reading Levels for this chapter in	clude: Levels H/I, presented in a text format and E,	presented in both text and symbol-supported
formats.		
Read and Answer	"	the star starts have to set on the basel of the
both illustrations and text to locate answers to que	g wriat students remember from reading. During insections Students recognize types of responses app	struction, students learn to refer to the book, using ropriate to who what and where formats. Question
responses may also provide students with a found	ation for story retell. Activities should be repeated th	proughout the unit to increase students' skills in
multiple areas of comprehension.		
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choice.	an in sentence surp format, allowing students to sele	ict nom multiple choices of one enoness picture
Build comprehension and vocabulary through	discussions.	
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		In the set of the set		Lesson
Read	ding Standards for Literature	instructional largets		
•	Range and Level of Text Complexity Fyne	rience grade level and age-appropriate	literature materi	ials, including poems, biographies, chapter
	books, fiction and nonfiction works that are ad	dapted to student reading level.		
•	Key Ideas and Details: Answer questions to	explain the main ideas, details and infe	rences of a stor	у.
Whic	ch of your state standards are aligned to th	ese instructional targets?		
Char	utau 5. Daaah Dauta	Classroom Activities/Lesson	Plan	
The	pier 5: Beach Party	Hat and Cald The fifth aborton Boach	Dorty footions	an temperature during a bet day at the baseb
The	chapter includes discussion of how to keep dr	inks cold in a cooler using a campfire fr	raily, locuses o	d keeping safe in the sun by using sunscreen
•	Chapter hooks present a "reading to learn" ex	perience Therefore students may rea	d independently	in a shared reading experience or books may
	be read to them. Present students with one of	chapter at a time for reading and compression	hension instruc	tion.
•	After each page is read, ask the discussion q	uestion that appears in italics at the bot	tom of the page.	. Focus on pictures to reinforce understanding
	Repeated readings are encouraged.			-
•	Suggested Reading Levels for this chapter in	clude: Levels H/I presented in a text for	mat, and E, pres	sented in both text and symbol-supported
n	iumats.			
Com	a ana ANSWer	" what students remember from readin	n During instru	ction students learn to refer to the back using
both	illustrations and text, to locate answers to our	estions. Students recognize types of re-	sponses appropri	riate to who, what and where formats Ouestio
resp	onses may also provide students with a found	ation for story retell. Activities should b	e repeated throu	ughout the unit to increase students' skills in
multi	ple areas of comprehension.	,		
•	Select the level of comprehension questions	appropriate to each student. Comprehe	nsion questions	are also in three formats. Level 3 is text only.
	Level 2 is symbol-supported. Level 1 is writte	en in sentence strip format, allowing stu	dents to select fr	rom multiple choices or one errorless picture
	Choice. Build comprehension and vocabulary through			
-		discussions		
-		discussions.		
6	Standards Connection	discussions.		
<i>C</i>	Standards Connection These standards connection lessons are desi	i discussions. igned to build summarizing skills and ar	e applicable to a	all chapters. Using the first standards
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Read • • Whic	Ling Standards for Literature Range and Level of Text Complexity: Expe books, fiction and nonfiction works that are an Key Ideas and Details: Answer questions to ch of your state standards are aligned to the standards are aligned to the standards are aligned to the standard	erience grade level and age-appropriate literature dapted to student reading level. explain the main ideas, details and inferences of rese instructional targets?	materials, including poems, biographies, chapter a story.
		Classroom Activities/Lesson Plan	
Cha	pter 6: Hot and Cold Safety		
addri • • • • • • • • • • • • • • • • • • •	ess both hot and cold temperatures. Food pre Chapter books present a "reading to learn" es be read to them. Present students with one d After each page is read, ask the discussion q Repeated readings are encouraged. Suggested Reading Levels for this chapter in formats. d and Answer prehension activities extend beyond "checking illustrations and text, to locate answers to que onses may also provide students with a found ple areas of comprehension. Select the level of comprehension questions Level 2 is symbol-supported. Level 1 is writte choice. Build comprehension and vocabulary through	eparation, food storage and weather are discusse xperience. Therefore, students may read indeper chapter at a time for reading and comprehension in juestion that appears in italics at the bottom of the include: Levels H/I, presented in a text format, and g" what students remember from reading. During estions. Students recognize types of responses a lation for story retell. Activities should be repeated appropriate to each student. Comprehension que en in sentence strip format, allowing students to s in discussions.	d in regards to safety. Indently, in a shared reading experience or books may instruction. a page. Focus on pictures to reinforce understanding. E, presented in both text and symbol-supported instruction, students learn to refer to the book, using appropriate to <i>who, what</i> and <i>where</i> formats. Question d throughout the unit to increase students' skills in estions are also in three formats. Level 3 is text only. elect from multiple choices or one errorless picture
• The text-	Standards Connection These standards connection lessons are des connection form, determine whether this bool the chapter is a fictional format that has a sto first two sets of comprehension questions only format.	igned to build summarizing skills and are applicat k is a work of fiction or nonfiction. Select the addi ry line or an informational text that includes facts are derived from the lower levels of text. An a	ble to all chapters. Using the first standards itional standards connection lesson based on whether and historical events. advanced level of mixed questions is provided in
• The text- Pre-	Standards Connection These standards connection lessons are des connection form, determine whether this bool the chapter is a fictional format that has a sto first two sets of comprehension questions only format. and post-assessments are available through a	igned to build summarizing skills and are applicat k is a work of fiction or nonfiction. Select the addi ry line or an informational text that includes facts are derived from the lower levels of text. An Monthly Checkpoints.	ble to all chapters. Using the first standards itional standards connection lesson based on whether and historical events. advanced level of mixed questions is provided in
• The text- Pre-	Standards Connection These standards connection lessons are des connection form, determine whether this bool the chapter is a fictional format that has a sto first two sets of comprehension questions only format. and post-assessments are available through a	igned to build summarizing skills and are applicat k is a work of fiction or nonfiction. Select the addi ry line or an informational text that includes facts are derived from the lower levels of text. An Monthly Checkpoints. Differentiated Tasks	ble to all chapters. Using the first standards itional standards connection lesson based on whether and historical events. advanced level of mixed questions is provided in
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• The text- <u>Pre-</u> •	Standards Connection These standards connection lessons are des connection form, determine whether this bool the chapter is a fictional format that has a sto first two sets of comprehension questions only format. and post-assessments are available through a a a Students will independently read literature forms, including chapter books, biographies, poems, fiction and nonfiction works that have been adapted to student reading level. Students will independently read questions about a story and write, speak or select an answer.	igned to build summarizing skills and are applicat k is a work of fiction or nonfiction. Select the addi ry line or an informational text that includes facts are derived from the lower levels of text. An a Monthly Checkpoints. Differentiated Tasks Level 2 • Students will read supported and shared literature forms, including chapter books, biographies, poems, fiction and nonfiction works that have been adapted to student reading level. • Students will point to or select a picture from a choice of three in response to a question about a story.	ble to all chapters. Using the first standards itional standards connection lesson based on whether and historical events. advanced level of mixed questions is provided in <u>Level 1</u> • Students will actively participate in supporte reading of literature forms, including chapte books, biographies, poems, fiction and nonfiction works that have been adapted to student ability level. • Students will respond to a question by choosing a single option or errorless picture
The text- Pre-	Standards Connection These standards connection lessons are des connection form, determine whether this bool the chapter is a fictional format that has a sto first two sets of comprehension questions only format. and post-assessments are available through of 13 Students will independently read literature forms, including chapter books, biographies, poems, fiction and nonfiction works that have been adapted to student reading level. Students will independently read questions about a story and write, speak or select an answer. Resources and Material	igned to build summarizing skills and are applicat k is a work of fiction or nonfiction. Select the addi ny line or an informational text that includes facts are derived from the lower levels of text. An a Monthly Checkpoints. Differentiated Tasks Level 2 • Students will read supported and shared literature forms, including chapter books, biographies, poems, fiction and nonfiction works that have been adapted to student reading level. • Students will point to or select a picture from a choice of three in response to a question about a story.	ble to all chapters. Using the first standards itional standards connection lesson based on whether and historical events. advanced level of mixed questions is provided in <u>Level 1</u> Students will actively participate in supporter reading of literature forms, including chapte books, biographies, poems, fiction and nonfiction works that have been adapted to student ability level. Students will respond to a question by choosing a single option or errorless picture Notes

Init Topic: Is It Hot? Is It Cold?			Lesson
	Instruction	nal Targets	
Math Standards for Expressions and Equations		d = aumbala in problema . Cal	we addition and subtraction problems. Medal and asks
problems involving multiplication or division.		1 – symbols in problems. Son	ve addition and subtraction problems. Model and solve
 Apply and extend previous understanding of an number within a real world conneria. 	rithmetic to algebraic expres	ssions: Write, read and solve	e expressions in which letters stand for unknown
Math Standards for Operations in Base Ten			
 Apply and extend previous understanding of operation of the second previous with whole numbers to 100. 	perations with fractions to a	add, subtract, multiply and o	divide rational numbers: Use all operations to solve
 Compute fluently with multi-digit numbers and 	find common factors and m	nultiples: Add, subtract, multi	iply and divide multi-digit numbers with fluency.
Which of your state standards are aligned to these in	nstructional targets?		
	Classroom Activ	ities/Lesson Plan	
Math Story Problems: Cookies and More Cookies! The early grades build the foundational skills needed for	later mathematical concents	These skills include number	recognition and use of numbers in operations to solve
problems. Many students continue to require practice in	adding and subtracting to bui	ild an understanding of multip	lication and division concepts. The math story problem
present real-world scenarios in which early skills are put	to use. The scenarios in this	lesson follow the unit theme	by using scenarios about baking cookies.
 Although certain math concepts may appear comp 	lex to some students, involver	ment in this math topic is imp	ortant for all students. Teaching and Learning Guides
 are provided to build foundational skills, including I Appropriate activities should be based on student 	how to add with carrying and h	now to subtract with borrowing	g.
with little or no support. Level 2 differentiated task	activities are intended for tho	se students who may require	some manipulative or teacher support. Although tracin
lines are available, hand-over-hand assistance ma	y be appropriate. Numbers and manipulate count pictures and manipulate	nd manipulatives are availabl	le for all Level 1 differentiated task activities. Voice
Addition		Subtraction	
Math Story 1 and 2: Adding to 10 Math Story 3 and 4: Adding to 20		Math Story 13 and 14: Subt Math Story 15 and 16: Subt	tracting to 10 tracting to 20
Manual And			
Math Story 5 and 6: Adding 3 Numbers to 50		Math Story 17: Subtracting	2-Digit Numbers to 50 - No Borrowing
Math Story 5 and 4: Adding 3 Numbers to 50 Math Story 7: Adding 2-Digit Numbers to 100 - No Carr Math Story 8: Adding 2-Digit Numbers - Teaching & Lea	ying arring How to Carry	Math Story 17: Subtracting 2 Math Story 18: Subtracting 2 Math Story 19: Subtracting 2	2-Digit Numbers to 50 - No Borrowing 2-Digit Numbers - Teaching & Learning How to Borrow 2-Digit Numbers to 50 - Borrowing
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APPENDIX M

News-2-you Newspaper
































		thi	nk	page	9		?
1. WHY	would you	like to	visit	the Wo	orld War	II Me	emorial ?
2. HOW	do you	think ver	terans	feel ☺:()) ()) ())	at	the M	lemorial ?
3. WHY	was World	d War II	terribl	le ? , ?			
November			© 2013 n2y				page 19

APPENDIX N

News-2-you App



iPad ᅙ	6:32 PM	86% 💷
	🐴 Honor Flight - P 2	
P	Honor Flight	news-2-you
Honor Flight	especially honors World War I	I veterans.
	World War II was terrible !	
Germany and Japa	an sent armies into	many countries.
America and	its friends wanted to stop	b them.*
The veteran	s won World War II for us	all.
+	\blacktriangleright	+

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Library 🗄 💥	💒 Honor Flight - P 3	
R	Honor Flight	news-2-you
America	wanted to honor these	veterans.
The World	d War II Memorial opened	in 2004. 2004
The	Memorial is in Washingto	n, D.C.
Many veterans	want to visit this	special Memorial.
Honor Fl	ight wants to help these	veterans.
+	\succ	+

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Lib	rary	E X		🐴 Honor	Flight - P	4		
	Ŷ	Autor Contraction	ŀ	lonor	Fligh	nt	news-2-	You
		World	War II	ended mo	re than	60 years	ago.	
	The	veterans	who	won th	e war	are	now	old.
		Some	need	help	going to	Washingt	on, D.C.	
		Many	do not	have	the mone	ey for th	e trip.	
		These	are	the veter	ans Hono	r Flight	helps.	
+				J				•

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Lib	rary \Xi	XK	Ą	Honor	Flight - P 5	5		
			Но	onor	Fligh	t	news-2-you	
		Hono	r Flight	started	in Ohio	in 200 20	05. 05	
	Ea	rl Morse	cared fo	or milita	ary vetera	ns in a	hospital.	
	He	e war	nted to h	elp t	hem v	isit the	Memorial.	
			Earl	is an	airplane	pilot.		
,	He	helped	fly	12 12	veterans	to V	Vashington,	D.C.
+				Ĵ				•

iPad 중	6:32 PM	86% 💷
Library 📃 💥	ar Honor Flight - P 6	
	Honor Flight	news-2-you
	Earl has a big dream.	
He wants	every living veteran to visit V	Vashington, D.C.
Ho	onor Flight makes the trip easy	/.)
The	veterans get the trip for free	! !
The veterans	are welcomed everywhere they =	go !
*		•

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Libi	rary 🗄	×	R	Honor F	=llght - l	P 7			
	Ŷ		Но	onor	Flig	ht		news-2-you	
		Earl's	idea has	helped	thousa	inds of)0s	veteran	s.	
	Today	Honor	Flight has	127 127	′ gro 7	oups	across	America.	
	Each ↓↓↓ ■■	gro	up flies	s vete	erans	to V	Vashingto	on, D.C.	
	The p	oeople	at Ho	nor Fligh	t are	kind	and	d loving.	
,	They	give	their	time	and +	money	to hel	o others.	
•								-	

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Libr	rary 😑 🐹 🛛 🖓 🏭 Honor Flight -	P 8 🕑	
	Honor Flig	ght)
	Do you have a veteran in	your family ?	
	Honor this special person	on Veterans Day.	
	Is he or sheaWor = 🎽 or 🗳	ld War II veteran?	
	Would they like to visit W	/ashington, D.C. ?	
	Honor Flight wants to honor	these heroes !	
+	<u> </u>		•

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Library		🦓 Honor File	ght - P 8	
_		Honor F	light	news-2-you
	Do you	have a veteran	in your f	amily ?
	Honor	this special per	rson on Veteran	s Day.
	Is he	or she a Or	World War II	veteran ?
	Would t	hey like to visi	it Washington, [o.c. ? ?
	Honor F	ight wants to hor	nor these he	roes!
(+

iPad 중	6:32 PM	86% 🔲
Library 🗄	offer Honor Flight - P 9	
	people in the news	news-2-you
wно ?	THE WORLD WAR II	
A veteran	is anyone who was in the U.S. $= \bigwedge^{\circ} \bigwedge^{\circ} \bigvee^{\circ} \qquad = \checkmark \bigvee^{\circ}$	military.
In World War	Army, Army, Army, Army, Army, Army, Const G	uard.
Veterans	fought in America and all around t	the world.
They f	ought on land, sea and in	the air.
+	\succ	+



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Library 😑 🐹 🕂 Honor Flight - P 11 🗠 🔒 👤
v places in the news
WHERE WORLD WAR II MEMORIAL
The World War II Memorial is in Washington, D.C.
The large Memorial is on the National Mall.
The Memorial has 56 tall pillars.
The name of a state or area is on each pillar. $ \begin{array}{ccccccccccccccccccccccccccccccccccc$
The pillars surround a beautiful fountain.
←

Pad 🗢 6:33 PM 86% 🗖
💶 📰 🛛 💒 Honor Flight - P 12 🛛 🖆 🔝
in the news
The Memorial has a big arch at each end.
The word "Atlantic" is on one arch. WORD \downarrow_p \swarrow $=$ $-$ 1 \bigwedge
The other arch has the word "Pacific." The other \wedge
Americans fought battles in both parts of the world.
The Memorial also has sculptures and 4,048 gold stars.*
←

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Library 📃 💥	🖤 😑 🐹 🛛 🦓 Honor Flight - P 15					
	game					
	Touch and Hold pictur	res about HONOR FLIGHT				
Washington, D.O	C. America	visit	arts and crafts			
Memorial	dog	Veterans Day	military			
birthday cake	veterans	trip	airplane			
Americans	World War II	hat	honor			
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iPad 🥱	<i>(</i> ,		6:3	3 PM		86% 💷					
Libr	rary		🗰 🛛 🐴 👬 Honor	Flight - P 16							
			review								
	1.	WHAT ?	is this paper about ?	Honor Flight	Fifth Harmony	Origami					
	2.	wно ?	were in the U.S. military ?	veterans	inventors	Boy Scouts					
	3.	wно ?	started the Honor Flight group ?	Jane Goodall	Flint Lockwood	Earl Morse					
	4.	WHERE	does Honor Flight take veterans ?	Germany	World War II Memorial	veteran's hospital					
	5.	WHERE	is the World War II Memorial ?	Enon, Ohio	Las Vegas, Nevada	Washington, D.C.					
	6.	wно ?	pays for veterans to go to the Memorial ?	Earl Morse	Honor Flight	U.S. Army					
•		🗙 Clea	ar 🗹 Check			→					





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Library		X	🐴 Ho	onor Flight	t - P 19			
_			1	think			?	=
1. V	VHY w	ould you	like to	visit the	e World	War II	Memorial f	?
2. H	iow d	o you	think ve	terans	feel () () () () () () () () () ()	at the	e Memoria	
3. V	VHY	was Worl	d War II	terrible ?	,			
•	🗙 Clea	r 🗹 Check						•

APPENDIX O

ULS Training (Traditional Teaching)
































APPENDIX P

ULS Training (*iPad*)












































APPENDIX Q

Student Training







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Jamie Linn Gunderson Curriculum Vitae

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Current Position

2012- present Assistive Technology Project Facilitator, Clark County School District

Degrees Awarded

Doctor of Philosophy, Special Education University of Nevada, Las Vegas Disability Areas: Autism and Intellectual Disabilities Leadership Area: Educational Leadership GPA 3.95/4.0

Master of Education, Special Education, 2007 University of Nevada, Las Vegas Area of Emphasis: Autism and Intellectual Disabilities GPA: 4.0/4.0, passed portfolio examination with distinction

Bachelor of Education, Special Education, 2007 University of Nevada, Las Vegas Area of Emphasis: Generalist K-12 GPA: 3.74/4.0

Certification

Special Education Generalist K-12, State of Nevada, Mild/Moderate Disabilities

School Administration, State of Nevada

TESL Endorsement

Honors and Awards

New Special Education Teacher of the Year, Clark County School District, 2006.

Professional Experience

University Experience

University of Nevada, Las Vegas, Fall 2012 Part-time Instructor, Department of Educational and Clinical Studies

University of Nevada, Las Vegas, Fall 2011 Teaching Internship, Department of Educational and Clinical Studies

Public School Experience

Lied Middle School, Clark County School District, Las Vegas, Nevada, 2009-2012

• Self-contained special education teacher for students with intellectual disabilities.

Las Vegas High School, Clark County School District, Las Vegas, Nevada, 2008-2009

• Self-contained special education teacher for students with intellectual disabilities.

Silvestri Junior High School, Clark County School District, Las Vegas, Nevada, 2006-2008

• Self-contained special education teacher for students with intellectual disabilities.

Nate Mack Elementary School, Clark County School District, Las Vegas, Nevada, 2005-2006

• Special programs teaching assistant for students with emotional and behavioral disorders.

Bruner Elementary School, Clark County School District, Las Vegas, Nevada, 2004-2005

• Teaching assistant for kindergarten students with and without disabilities.

Research and Scholarship

Presentations

Morgan, J. J., Brown, N., & Gunderson, J. (2011, November). Integrating professional learning communities into the practicum experience. Session presented at the annual meeting of the Teacher Education Division in Austin, TX. Gunderson, J. L., Lucia-Terry, S., & Amoia, A. (2014, November) *iFly* Soaring to Success. Session presented at the Urban Special Education Leadership Collaborative in Houston, TX.

Teaching

University of Nevada, Las Vegas, 2012

Part-time Instructor, Department of Educational and Clinical Studies

Course Number and Title	Course Description	Semester(s) Taught
ESP 737i: Resource Room Practicum	Course designed to provide students with an overview of the resource room including developing classroom systems, writing high quality lesson objectives and plans, acquiring materials for the classroom, developing strategies and techniques for instruction students with disabilities, and writing individualized education plans (IEPs).	Fall 2011 Fall 2012

Service

Clark County School District

Designed and implemented project iFly serving elementary and secondary students with intellectual disabilities. Authored the iFly iBook (available in the iBook store).

Professional Organizations

Council for Exceptional Children Division for Research Technology and Media Division