Using Mastery Learning to Help All Students Achieve

Jori S. Beck  
*University of Nevada, Las Vegas*

Christina J. Santoyo  
*University of Nevada, Las Vegas*

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What is Mastery Learning?
• In 1968, Benjamin Bloom outlined a specific strategy that he dubbed learning for mastery, which later became mastery learning (Guskey, 2007).
• Mastery learning includes the following elements:
  • Instruction organized into units.
  • Clear instructional goals.
  • Minimum passing criteria.
  • Use of regular formative assessment to evaluate student learning on instructional goals.
  • “Corrective” (p. 12) activities paired with formative assessments to address individual struggles.
  • Use of parallel assessments to corroborate the first formative assessment and provide students with multiple attempts.
  • Enrichment activities to push high achieving students (Guskey, 2007; MacGaghie, 2015).

What the Research Says
• In classes that implement mastery learning, 90% of students achieve at the level that was previously attained by only the top 10% of the class (Kulik, Kulik, & Bangert-Drowns, 1990).
• “[L]ow aptitude students may gain more” (Kulik et al., 1990, p. 286) from a course that uses mastery learning.
• It may be particularly effective in achieving higher-level thinking goals (Guskey, 2007).
• Mastery learning reduces variation in student learning and closes achievement gaps (Guskey, 2007).
• Mastery learning may also boost students’ confidence in learning situations, attendance rates, involvement in class activities, and attitudes toward learning (Guskey, 2007).

What UNLV Students Say
- “Dr. Beck allowed the students to redo assignments based on her corrections and feedback…I greatly benefitted from this. It also took the pressure off[ ] scholastic performance and allowed the students to fully concentrate on the assignment. I learned more by redoing an assignment I did not fully understand. Afterwards this gave me a feeling of mastery and self-confidence.”

Additional Resources
- See handout for resources on differentiation, backward planning, and mastery learning including example syllabus language.

An Example
Learning to use APA format in a master’s level education program is crucial to student success in the M.Ed. program. Using mastery learning allows our students to incorporate APA skills in a scaffolded (gradual) manner to fully grasp the concept:
- Students participate in an APA tutorial online.
- Students take a baseline quiz and have unlimited attempts until they reach 100%.
- Students complete an APA correction activity to apply their knowledge.

Why Mastery Learning?
• It can be easily implemented across content areas. We recommend homing in on a key skill in your content area and allowing students multiple opportunities for success.
• It is possible to work into any course and syllabus and may require minimal adjustments (Guskey, 2007). See the example language in our handout.
• The instructor can determine how much time to allocate to mastery learning—just a little or more extensive implementation.
• It allows students to attempt knowledge or skill multiple times (Guskey, 2007).
• It meets the needs of diverse learners (Guskey, 2007).
• It reduces variation in learning and closes achievement gaps (Guskey, 2007).