Curriculum Compacting

Curriculum compacting is a technique for differentiating instruction that allows teachers to make adjustments to curriculum for students who have already mastered the material to be learned, replacing content students know with new content, enrichment options, or other activities. Researchers recommend that teachers first determine the expected goals of the unit or lesson in terms of the content, skills, or standards students must learn before assessing students to determine which ones have already mastered most or all of the specified learning outcomes. [1]

- Elementary teachers can eliminate from 24%-70% of high-ability students’ curriculum by compacting without any negative affect on test scores or performance. [2] In fact, curriculum compacting can have a positive affect on students’ performance. Because many talented students receive little differentiation of instruction from their peers, they spend a great deal of time in school doing work that they have already mastered. Curriculum compacting allows these students to avoid having to relearn material they already know, which research has shown can lead to frustration, boredom and, ultimately, underachievement. [3]
- Researchers have reported that when classroom teachers eliminated between 40%-50% of the previously mastered regular curriculum for high-ability students, no differences were found between students whose work was compacted and students who did all of the work in reading, math computation, social studies, and spelling. [4] In an analysis of gifted education literature on the topic, another researcher found curriculum compacting to be very effective overall in mathematics, science, and foreign languages. [5]
- In a national study of curriculum compacting, the students who received compacting in science and mathematics actually scored significantly higher on achievement posttests than their peers in the control group, suggesting the benefits of compacting for increases on standard achievement assessments. Analyses of data related to students’ thoughts about replacement activities indicated that the students viewed the new curricular options as much more challenging than standard material. [6]
- Some concerns have arisen regarding the need to train teachers in the compacting process. In one study focused on curriculum compacting, almost all classroom teachers participating learned to use compacting, but needed coaching and help to substitute appropriately challenging options. [7] When interviewing teachers about the instructional methods used in fast-paced classes, other researchers found that few teachers mentioned curriculum compacting as a strategy used to eliminate instruction. [8] Teachers in a small study looking at compacting with first-grade students stated that they were “eager to continue implementing curriculum compacting in the future” because of the benefits toward students, but it was determined that further in-service and other training opportunities were needed to help them modify instruction and find replacement activities. [9]


