

Compacted Integrated Math 7

Course Description

Compacted Integrated Math 7 is a course offered in the 7th grade, as the first year of the Middle School Compacted Pathway. The course content differs from the Integrated Math 7 course in that it includes Grade 8 standards in addition to all of the Grade 7 standards. The course content is organized to retain coherence among topics and between courses, but the additional content when compared to a non-accelerated course demands a faster pace for instruction and learning.

Purpose and Structure of Course

The textbooks that we will be using, College Preparatory Mathematics (CPM) Core Connections, Course 2 (CC2), and Core Connections, Course 3 (CC3) are the second and third years of a three-year sequence of courses designed to prepare students for a rigorous college preparatory algebra course. It uses a problem-based approach with concrete models. The course helps students to develop multiple strategies to solve problems and to recognize the connections between concepts. The lessons in the course meet all of the content standards and embed the “Mathematical Practices” of the Common Core State Standards released in June 2010.

Course Learning Objectives

Compacted Integrated Math 7 focuses on these critical areas:

- developing understanding of and applying proportional relationships
- developing understanding of operations with rational numbers and working with expressions and linear equations
- solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume
- drawing inferences about populations based on samples.
- formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations
- grasping the concept of a function and using functions to describe quantitative relationships
- analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence.

Course Textbook

- College Preparatory Mathematics (CPM), Core Connections 2, online ebook (CC2)
- College Preparatory Mathematics (CPM), Core Connections 3, online ebook (CC3)