

6-7 Compacted Math Syllabus

Course Description/Goals:

The primary focal areas in 6-7 Compacted are number and operations; proportionality; expressions, equations, and relationships; and measurement and data. Students use concepts, algorithms, and properties of rational numbers to explore mathematical relationships and to describe increasingly complex situations; concepts of proportionality to explore, develop, and communicate mathematical relationships, including number, geometry and measurement, and statistics and probability; algebraic thinking to describe how a change in one quantity in a relationship results in a change in the other. Students connect verbal, numeric, graphic, and symbolic representations of relationships, including equations and inequalities; geometric properties and relationships, as well as spatial reasoning, to model and analyze situations and solve problems; communicate information about geometric figures or situations by quantifying attributes, generalize procedures from measurement experiences, and use the procedures to solve problems.; appropriate statistics, representations of data, and reasoning to draw conclusions, evaluate arguments, and make recommendations.

Course TEKS/Objectives:

The TEKS (Texas Essential Knowledge and Skills) are organized into reporting categories, each focusing on a specific area of mathematics. These categories include: Probability and Numerical Representations, Computations and Algebraic Relationships, Geometry and Measurement, and Data Analysis and Personal Financial Literacy. Each category contains specific standards (TEKS) that students are expected to master. <https://tea.texas.gov/sites/default/files/ch111c.pdf>

Course Outline:

Semester 1	Semester 2
<ul style="list-style-type: none">-Positive Rational Numbers-Integer Operations and the Coordinate Plane-Rational Number Operations-Numeric and Algebraic Expressions-Equations and Inequalities-Ratio and Rate-Proportional Relationships	<ul style="list-style-type: none">-Percent-Display, Describe, and Summarize Data-Area and Volume-Financial Math-Circles