

6th Math Syllabus

Course Description/Goals:

The primary focal areas in Grade 6 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; algebraic thinking to describe how a change in one quantity in a relationship results in a change in the other; 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; and appropriate statistics, representations of data, and reasoning to draw conclusions, evaluate arguments, and make recommendations.

Course TEKS/Objectives:

The 6th Grade TEKS (Texas Essential Knowledge and Skills) are organized into reporting categories, each focusing on a specific area of math. These categories include: Numerical Representations and Relationships; 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/about-tea/laws-and-rules/sboe-rules-tac/sboe-tac-currently-in-effect/ch111b.pdf>

Course Outline:

Semester 1	Semester 2
<ul style="list-style-type: none">-Factors and Multiples-Operations with Positive Fractions-Decimals-Percents-Ratios, Rates, and Conversions-Signed Numbers and the Four Quadrants-Operating with Integers	<ul style="list-style-type: none">-Expressions-Equations and Inequalities-Shapes and Solids-Graphing Quantitative Relationships-The Statistical Process and Graphs-Financial Literacy