

# Grade 6 Applied Math Syllabus

## **Course Description/Goals:**

This course modifies grade 6 mathematics content to meet the individual learning requirements of students as determined by the ARD committee. 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"><li>-Factors and Multiples</li><li>-Operations with Positive Fractions</li><li>-Decimals</li><li>-Percents</li><li>-Ratios, Rates, and Conversions</li><li>-Signed Numbers and the Four Quadrants</li><li>-Operating with Integers</li></ul>	<ul style="list-style-type: none"><li>-Expressions</li><li>-Equations and Inequalities</li><li>-Shapes and Solids</li><li>-Graphing Quantitative Relationships</li><li>-The Statistical Process and Graphs</li><li>-Financial Literacy</li></ul>

