

## 6-7 Compacted GT Math Syllabus

### **Course Description/Goals:**

The primary focal areas in 6-7 Compacted GT 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; and 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"><li>-Positive Rational Numbers</li><li>-Integer Operations and the Coordinate Plane</li><li>-Numeric and Algebraic Expressions</li><li>-Equations and Inequalities</li><li>-Ratio and Rate</li><li>-Proportional Relationships</li></ul>	<ul style="list-style-type: none"><li>-Percent</li><li>-Display, Describe, and Summarize Data</li><li>-Area and Volume</li><li>-Probability</li><li>-Financial Math</li></ul>