



# Yearly Overview

## PAP Mathematics 6

2023-2024

The curriculum for PAP Mathematics 6 includes all of the Grade 6 TEKS and some of the appropriately aligned Grade 7 TEKS. The PAP Mathematics 6 curriculum is a compacted and accelerated curriculum. Student expectations from Grade 7 TEKS taught in PAP Mathematics 6 include: add, subtract, multiply, and divide rational numbers fluently; apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers; represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including  $d = rt$ ; determine the constant of proportionality ( $k = y/x$ ) within mathematical and real-world problems; calculate unit rates from rates in mathematical and real-world problems; extend previous knowledge of sets and subsets using visual representation to describe relationships between sets of rational numbers; write, solve, and represent solutions to one variable, two-step equations and inequalities for mathematical and real-world situations.

## Semester 1

---

### Term 1

- **Numbers and Operations**
  - Classify, Compare, Order, and Identify Rational Numbers
  - Add, Subtract, Multiply, and Divide Rational Numbers
- **Expressions, Equations, and Relationships**
  - Exponents
  - Prime Factorization
  - Order of Operations - GEMDAS
  - Properties of Operations
- **Geometry**
  - Equations and Graphs – Additive and Multiplicative Relationships
  - Coordinate Planes

**District PAP Grade 6 Review and Benchmark**

---

### Term 2

- **Expressions, Equations, and Relationships**
  - Solving, Writing, and Modeling One-variable, Two-Step Equations and Inequalities
- **Proportionality**
  - Ratios, Unit Rates, and Proportions

**District PAP Grade 6 Review and Benchmark**

---



## Semester 2

---

### Term 3

- **Proportionality**
    - Constant of Proportionality
    - Constant Rates of Change – Pictorial, Numeric, Tabular, Verbal, and Graphical
    - Fractions, Decimals, and Percents
    - Measurement Conversions
    - Similar Shapes and Scale Drawings
  - **Geometric Concepts with Equations**
    - Angle Relationships
    - Volume of Rectangular Prisms
    - Area of Triangles, Rectangles, Parallelograms, and Trapezoids
  - **Measurement and Data**
    - Mean, Median, Mode, Range, and Inter-Quartile Range
    - Dot and Box Plots
- 

### Term 4

- **Measurement and Data**
  - Stem and Leaf Plots
  - Histograms
- **Personal Financial Literacy**
  - Checking Accounts
  - Debit and Credit Cards
  - Balance a Check Register
  - Credit History and Reports
  - Methods to Pay for College

### **STAAR Review and Grade 6 STAAR Test**

- **Geometric Concepts with Equations**
  - Circles - Diameter, Radius,  $\pi$ , Circumference, and Area
  - Area of Composite Figures