



Yearly Overview PAP Mathematics 6

2020-2021

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
-

Term 2

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

District Grade 6 Review and Benchmark



Semester 2

Term 3

- **Proportionality**
 - Fractions, Decimals, and Percents
 - Mark Up and Mark Down & Percent Increase and Decrease
 - Constant Rates of Change – Pictorial, Numeric, Tabular, Verbal, and Graphical
 - Measurement Conversions
 - Similar Shapes and Scale Drawings
 - **Geometric Concepts with Equations**
 - Angle Relationships
 - Volume of Rectangular Prisms
 - Area of Triangles, Rectangles, Parallelograms, and Trapezoids
 - Circles - Diameter, Radius, π , Circumference, and Area
 - Area of Composite Figures
-

Term 4

- **Measurement and Data**
 - Stem and Leaf Plots & Dot and Box Plots
 - Histograms
 - Mean, Median, Mode, Range, and Inter-Quartile Range
- **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

- **Numbers and Operations**
 - Rational Number Review
-