

# 7<sup>th</sup> Grade

## Mathematics

### 1<sup>st</sup> 9 Weeks

- Rational Numbers
- Terminating and Repeating Decimals
- Sets of Rational Numbers
- Add and Subtract Integers
- Multiply and Divide Integers
- Add and Subtract Like and Unlike Fractions
- Add and Subtract Mixed Numbers
- Multiply and Divide Rational Numbers
- Unit Rates
- Complex Fractions and Unit Rates
- Convert Unit Rates
- Proportional and Nonproportional Relationships
- Convert Between Systems
- Constant Rate of Change
- Constant of Proportionality

### 2<sup>nd</sup> 9 Weeks

- Percent and Estimation
- The Percent Proportion
- The Percent Equation
- Percent of Change
- Financial Literacy:
  1. Sales Tax
  2. Tips
  3. Markup
- Discount
- Simple and Compound Interest
- Scale Drawings
- Changes in Perimeter and Area
- Changes in Dimension
- Circumference
- Probability and Predictions
- Experimental Data
- Simple and Compound Events
- Independent and Dependent Events

### 3<sup>rd</sup> 9 Weeks

- Identify Linear Relationships
- Equations
- Make a Table
- Slope
- Slope-Intercept Form
- Family of Linear Relationships
- Equations and Inequalities
- Solve Two-Step Equations
- Solve One-Step Inequalities
- Solve Two-Step Inequalities
- Angle Relationships
- Complementary and Supplementary Angles
- Angles in Triangles
- Area of Circles
- Volume of Prisms
- Volume of Pyramids
- Surface Area of Three-Dimensional Figures

### 4<sup>th</sup> 9 Weeks

- Graphs and Dot Plots
- Circle Graphs
- Make a Prediction about a Population
- Unbiased and Biased Samples
- Misleading Graphs and Statistics
- Collect and Compare Data
- Personal Financial Literacy
  1. Sales and Income Tax
  2. Personal and Family Budgets
  3. Assets and Liabilities
  4. Simple and Compound Interest
  5. Shopping: Monetary Incentives