

6th grade math:

- Using variables in expressions
- Extend previous understanding of operations with fractions, decimals, mixed numbers, and integers
- Factors, multiples, and divisibility
- Solving one-step equations
- Ratios, rates, proportions, and percents
- Measurement – perimeter, area, volume, surface area
- Reading and designing graphs
- Probability
- Strategies to solve real-world problems

7th grade math:

- Extend previous understanding of operations with fractions, decimals, integers, and mixed numbers
- Scientific notation
- Solving multi-step equations
- Measurement: lengths, weights, capacity, converting between metric and US units, area, volume, surface area
- Geometry: angles, polygons, circles, 3-dimensional figures
- Graphs: coordinate graphs, graphing lines, translations, reflections, tessellations
- Rates, ratios, proportions
- Probability
- Strategies to solve real-world problems

8th grade math:

- Extend previous understanding of operations with fractions, decimals, mixed numbers, and integers
- Rational and irrational numbers
- Exponents and scientific notation
- Solving multi-step equations
- Ratios, proportions, and percent
- Consumer topics: income, budgets, interpreting bills, comparison shopping

Geometry: lines, angles, polygons, circles, solids, area, volume, surface area

Probability

Strategies to solve real-world problems

8th grade algebra:

Extend previous understanding of solving multi-step equations

Solving inequalities

Functions

Slope and equations of lines

Solving linear systems

Exponents and powers

Solving and factoring quadratic equations

Polynomials

Probability and Statistics