Grade 6

1. Understand ratio concepts and use ratio reasoning to solve problems.

2. Develop understanding of statistical variability.

3. Reason about and solve one-variable equations and inequalities.

4. Solve real-world and mathematical problems involving area, surface area, and volume.

5. Apply and extend previous understandings of numbers to the system of rational numbers.
Grade 7

1. Analyze proportional relationships and use them to solve real-world and mathematical problems.

2. Draw, construct and describe geometrical figures and describe the relationships between them.

3. Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

4. Use random sampling to draw inferences about a population.

5. Use properties of operations to generate equivalent expressions.
Grade 8

1. Work with radicals and integer exponents.

2. Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.

3. Define, evaluate, and compare functions.

4. Investigate patterns of association in bivariate data.

5. Understand and apply the Pythagorean Theorem.