Grade 6 Overview at a Glance

Critical Areas

1 Connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems.

2 Completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers

3 Writing, interpreting, and using expressions and equations

4 Developing understanding of statistical thinking

5 **Mathematical Practices**

- **Make sense of problems and persevere in solving them.**
- **Reason abstractly and quantitatively.**
- **Construct viable arguments and critique the reasoning of others.**
- **Model with mathematics.**
- **Use appropriate tools strategically.**
- **Attend to precision.**
- **Look for and make use of structure.**
- **Look for and express regularity in repeated reasoning.**

Domains and Clusters

Ratios and Proportional Relationships

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

The Number System

■ Apply and extend previous understandings of multiplication and division to divide fractions by fractions.

◉ Compute fluently with multi-digit numbers and find common factors and multiples.

■ Apply and extend previous understandings of numbers to the system of rational numbers.

Expressions and Equations

■ Apply and extend previous understandings of arithmetic to algebraic expressions.

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

■ Represent and analyze quantitative relationships between dependent and independent variables.

Geometry

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

Statistics and Probability

◉ Develop understanding of statistical variability.

◉ Summarize and describe distributions.

Content Emphasis by Clusters Key

■ Major Clusters

☐ Supporting Clusters

◉ Additional Clusters