6th Grade Course Information

Transition Math

Content Area	Learning Focuses
Number & Operations	- Read, write, represent and compare positive rational numbers expressed as fractions, decimals, percents and ratios; write positive integers as products of factors; use these representations in real-world and mathematical situations.(6.1.1) - Understand the concept of ratio and its relationship to fractions and to the multiplication and division of whole numbers. Use ratios to solve real-world and mathematical problems..(6.1.2) - Multiply and divide decimals, fractions and mixed numbers; solve real-world and mathematical problems using arithmetic with positive rational numbers.(6.1.3)
Algebra	- Recognize and represent relationships between varying quantities; translate from one representation to another; use patterns, tables, graphs and rules to solve real-world and mathematical problems.(6.2.1) - Use properties of arithmetic to generate equivalent numerical expressions and evaluate expressions involving positive rational numbers.(6.2.2) - Understand and interpret equations and inequalities involving variables and positive rational numbers. Use equations and inequalities to represent real-world and mathematical problems; use the idea of maintaining equality to solve equations. Interpret solutions in the original context.(6.2.3)
Geometry & Measurement	- Calculate perimeter, area, surface area and volume of two- and three-dimensional figures to solve real-world and mathematical problems.(6.3.1) - Understand and use relationships between angles in geometric figures.(6.3.2) - Choose appropriate units of measurement and use ratios to convert within measurement systems to solve real-world and mathematical problems.(6.3.3)
Data Analysis	Use probabilities to solve real-world and mathematical problems; represent probabilities using fractions, decimals, and percents.(6.4.1)