Math Curriculum 6th Grade

	Instructional Focus	Skills
September	Reviewing 5th grade skills. **Chapter 1:** Numerical Expressions and Factors	• Writing and evaluating expressions involving exponents. • Writing and evaluating numerical expressions using the order of operations. • Writing a number as a product of prime factors and representing the product using exponents. • Finding the greatest common factor of 2 numbers. • Finding the least common multiple of 2 numbers.
October	**Chapter 2:** Fractions and Decimals	• Finding products involving fractions and mixed numbers. • Computing quotients of fractions and solving problems involving division by fractions. • Computing quotients with mixed numbers and solving problems involving division with mixed numbers. • Adding and subtracting decimals and solving problems involving addition and subtraction of decimals. • Multiplying decimals and solving problems involving the multiplication of decimals. • Dividings whole numbers and solving problems involving division of whole numbers. • Dividings decimals and solving problems involving division of decimals.
November	Continuing Chapter 2 work **Chapter 3:** Ratios and Rates	• Continuing with skills from Chapter 2. • Understanding the concepts of ratios and equivalent ratios. • Using tape diagrams to model and solve ratio problems. • Using ratio tables to represent equivalent ratios and solve ratio problems. • Represent ratio relationships in a coordinate plane. • Understanding the concept of a unit rate and solving rate problems. • Using ratio reasoning to convert units of measure.
December	Continuing Chapter 3 work	• Continuing with skills from Chapter 3.
January	**Chapter 4:** Percents	• Writing percent as fractions and fractions as percents. • Writing percents as decimals and decimals as percents. • Comparing and ordering fractions, decimals, and percents. • Finding a percent of a quantity and solving percent problems.

Math Curriculum 6th Grade

	Instructional Focus	Skills
February	Chapter 5: Algebraic Expressions and Properties	• Evaluate algebraic expressions given values of their variables. • Write algebraic expressions and solve problems involving algebraic expressions. • Identify equivalent expressions and apply properties to generate equivalent expressions. • Apply the Distributive Property to generate equivalent expressions. • Factor numerical and algebraic expressions.
March	Chapter 6: Equations	• Write equations in one variable and write equations that represent real-life problems. • Write equations in one variable and write equations that represent real-life problems. • Write and solve equations using multiplication or division. • Write equations in two variables and analyze the relationship between the two quantities.
April	Chapter 7: Area, Surface Area, and Volume	• Find areas and missing dimensions of parallelograms. • Find areas and missing dimensions of triangles and find areas of composite figures. • Find areas of trapezoids, kites, and composite figures. • Represent pyramids using nets and use nets to find surface areas of pyramids and prisms. • Represent pyramids using nets and use nets to find surface areas of pyramids.
May	Chapter 8: Integers, Number Lines, and the Coordinate Plane	• Understand the concept of negative numbers and that they are used along with positive numbers to describe quantities. • Compare and order integers. • Compare and order rational numbers. • Understand the concept of absolute value. • Plot and reflect ordered pairs in all four quadrants of a coordinate plane. • Plot and reflect ordered pairs in all four quadrants of a coordinate plane.

June	Chapter 9: Statistical Measures Chapter 10: Data Displays	• Identify statistical questions and use data to answer statistical questions. • Find and interpret the range, median, and mode of a data set. • Display and interpret data in stem-and-leaf plots. • Display and interpret data in histograms.