



6th Grade Mathematics Curriculum

Marking Period	Reading/Writing Assignment	Chapter/Section
1	Field Running Data Collection Response	Chapter 9: Statistical Measures
2	Discount Shopping and Tipping Prompt	Chapter 4: Percents
3	Distributive Property Error Analysis	Chapter 5: Algebraic Expressions and Properties
4	City Design Area Argument and Justification	Chapter 7: Area, Surface Area, and Volume

Scoring Guide for Written Work

1 - Emerging	2 - Intermediate	3 - Proficient	4 - Exemplary
<p>Conceptual Understanding Demonstrates almost no understanding of learning targets, and includes significant errors or deficiencies in thought.</p> <p>Mathematical Skills Gives incorrect answers and explanations and does not follow or implement correct processes or methods for the solution.</p> <p>Work Habits Does not complete the majority of tasks and/or work is unintelligible.</p>	<p>Conceptual Understanding Demonstrates some understanding of learning targets, potentially including several errors or deficiencies in thought.</p> <p>Mathematical Skills Gives partially correct answers and explanations, does not use ideal processes or methods, and work is not clear.</p> <p>Work Habits Completes almost all tasks but work is not organized or easily understood.</p>	<p>Conceptual Understanding Demonstrates nearly all understanding of learning targets, potentially including a minor error or deficiency in thought.</p> <p>Mathematical Skills Gives correct or nearly correct answers and explanations through solving equations, drawing graphs, identifying figures, etc., and may also lack some clarity.</p> <p>Work Habits Completes tasks thoroughly, and work is mostly organized and legible.</p>	<p>Conceptual Understanding Demonstrates complete understanding of learning targets.</p> <p>Mathematical Skills Gives clear and correct answers and explanations through solving equations, drawing graphs, identifying figures, etc..</p> <p>Work Habits Completes tasks thoroughly, and work is organized, legible, and easily understood.</p>



6th Grade Mathematics Curriculum

Content Topics and Pacing

Topic	Duration	Learning Target(s)
Chapter 1 Numerical Expressions and Factors	~4 weeks	<ul style="list-style-type: none">• Write and evaluate expressions involving exponents.• Write and evaluate numerical expressions using the order of operations.• Write a number as a product of prime factors and represent the product using exponents.• Find the greatest common factor of two numbers.• Find the least common multiple of two numbers.
Chapter 2 Fractions and Decimals	~8 weeks	<ul style="list-style-type: none">• Find products involving fractions and mixed numbers.• Compute quotients of fractions and solve problems involving division by fractions.• Compute quotients with mixed numbers and solve problems involving division with mixed numbers.• Add and subtract decimals and solve problems involving addition and subtraction of decimals.• Multiply decimals and solve problems involving multiplication of decimals.• Divide whole numbers and solve problems involving division of whole numbers.• Divide decimals and solve problems involving division of decimals.
Chapter 4 Percents	~3 weeks	<ul style="list-style-type: none">• Write percents as fractions and fractions as percents.• Write percents as decimals and decimals as percents.• Compare and order fractions, decimals, and percents.• Find a percent of a quantity and solve percent problems.
Chapter 5 Algebraic Expressions and	~3 weeks	<ul style="list-style-type: none">• Evaluate algebraic expressions given values of their variables.• Write algebraic expressions and solve problems involving algebraic



6th Grade Mathematics Curriculum

Properties		<p>expressions.</p> <ul style="list-style-type: none">• Identify equivalent expressions and apply properties to generate equivalent expressions.• Apply the Distributive Property to generate equivalent expressions.• Factor numerical and algebraic expressions.
Chapter 6 Equations	~4 weeks	<ul style="list-style-type: none">• Write equations in one variable and write equations that represent real life problems.• Write and solve equations using addition or subtraction.• Write and solve equations using multiplication or division.• Write equations in two variables and analyze the relationship between the two quantities.
Chapter 7 Area, Surface Area, and Volume	~4 weeks	<ul style="list-style-type: none">• 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.• Describe and draw three-dimensional figures.• Represent prisms using nets and use nets to find surface areas of prisms.• Find volumes and missing dimensions of rectangular prisms.
Chapter 8 Integers, Number Line, and the Coordinate Plane	~6 weeks	<ul style="list-style-type: none">• 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.• Draw polygons in the coordinate plane and find distances between points in the coordinate plane.• Write inequalities and represent solutions of inequalities on



6th Grade Mathematics Curriculum

		<p>number lines.</p> <ul style="list-style-type: none">• Write and solve inequalities.
<p>Chapter 9 Statistical Measures</p>	<p>~4 weeks</p>	<ul style="list-style-type: none">• Identify statistical questions and use data to answer statistical questions.• Find and interpret the mean of a data set.• Find and interpret the median and mode of a data set.• Find and interpret the range and interquartile range of a data set.• Find and interpret the mean absolute deviation of a data set.