



7th Grade Mathematics Curriculum

Reading and Writing Standards

Marking Period	Reading/Writing Assignment	Chapter/Section
1	Chapter 2 Statements: Always, Sometimes, or Never	Chapter 2: Multiplying and Dividing Rational Numbers
2	Using Expressions to Explain Real World Problems	Chapter 3: Expressions
3	Equations vs. Inequalities - The Same But Different	Chapter 4: Equations and Inequalities
4	Theoretical vs. Experimental Probability Analysis	Chapter 7: Probability

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>



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Content Topics and Pacing

Topic	Duration	Learning Target(s)
Chapter 1 Adding and Subtracting Rational Numbers	3-4 weeks	<ul style="list-style-type: none">• Understand absolute values and ordering rational numbers.• Find sums of integers.• Find sums of rational numbers.• Find differences of integers.• Find differences of rational numbers.
Chapter 2 Multiplying and Dividing Rational Numbers	3-4 weeks	<ul style="list-style-type: none">• Find products of integers.• Find quotients of integers.• Convert between different forms of rational numbers.• Find products of rational numbers.• Find quotients of rational numbers.
Chapter 3 Expressions	3 weeks	<ul style="list-style-type: none">• Simplify algebraic expressions.• Find sums and differences of linear expressions.• Apply the Distributive Property to generate equivalent expressions.• Factor algebraic expressions.
Chapter 4 Equations and Inequalities	5 weeks	<ul style="list-style-type: none">• Write and solve equations using addition or subtraction.• Write and solve equations using multiplication or division.• Write and solve two-step equations.• Write inequalities and represent solutions of inequalities on number lines.• Write and solve inequalities using addition or subtraction.• Write and solve inequalities using multiplication or division.• Write and solve two-step inequalities.



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Chapter 5 Ratios and Proportions	4 weeks	<ul style="list-style-type: none">• Understand ratios of rational numbers and use ratio tables to represent equivalent ratios.• Understand rates involving fractions and use unit rates to solve problems.• Determine whether two quantities are in a proportional relationship.• Use proportions to solve ratio problems.• Represent proportional relationships using graphs and equations.• Solve problems involving scale drawings.
Chapter 6 Percents	4 weeks	<ul style="list-style-type: none">• Rewrite fractions, decimals, and percents using different representations.• Use the percent proportion to find missing quantities.• Use the percent equation to find missing quantities.• Find percentages of change in quantities.• Solve percent problems involving discounts and markups.• Understand and apply the simple interest formula.
Chapter 7 Probability	3-4 weeks	<ul style="list-style-type: none">• Understand how the probability of an event indicates its likelihood.• Develop probability models using experimental and theoretical probability.• Find sample spaces and probabilities of compound events.• Design and use simulations to find probabilities of compound events.
Chapter 8 Statistics	3-4 weeks	<ul style="list-style-type: none">• Understand how to use random samples to make conclusions about a population.• Understand variability in samples of a population.• Compare populations using measures of center and variation.• Use random samples to compare populations.



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<p>Chapter 9 Geometric Shapes and Angles</p>	<p>4 weeks</p>	<ul style="list-style-type: none">• Find the circumference of a circle.• Find the area of a circle.• Find perimeters and areas of composite figures.• Construct a polygon with given measures.• Use facts about angle relationships to find unknown angle measures.
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