Prep for Mathematics 7	Scope and Sequence
Unit Lesson	**Objectives**
Diagnostic PreTest	
TEST	
Ratios and Rates	
Equivalent Ratios	
	Analyze patterns in a table of equivalent ratios.
	Find missing values in a table using ratio reasoning.
Understanding Unit Rates	
	Find unit rates.
Comparing Ratios	
	Compare ratios using different strategies.
Ratios in Real-World Situations	
	Compare ratios in real-world contexts.
Plotting Equivalent Ratios	
	Plot tables of equivalent ratios on the coordinate plane.
	Identify patterns of plots of equivalent ratios.
Analyzing Equivalent Ratios in the Coordinate Plane	
	Analyze the graph of equivalent ratios plotted on the coordinate plane.
	Use the language of ratios to explain the graph of equivalent ratios in real-world contexts.
Rational Numbers and Integers	
Finding a Rule for Dividing Fractions	
	Use the standard algorithm to divide fractions.

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	Fraction Multiplication and Division	
		Solve real-world problems using fraction multiplication or division.
	Understanding Percent	
		Represent a portion of a set with a ratio.
		Translate ratios of part: whole and part/whole as percents.
		Use models to illustrate the meaning of percents.
		Compare ratios and percents of sets with different base units.
	Fraction-Decimal-Percent Equivalents	
		Find equivalent forms of fractions, decimals, and percents.
	Using Equivalent Ratios to Find Percents	
		Represent percent problems using equivalent ratios.
		Use patterns in equivalent ratios to find the percent of a whole.
	Negative Numbers in Real-World Contexts	
		Use positive and negative numbers to represent quantities in real-world contexts.
		Describe the meaning of zero in real-world contexts.
	Integers on the Number Line	
		Identify integers.
		Graph integers on number lines.
		Find the opposite of an integer.
Expressions		
	Expressions with More Than One Operation	

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		Write algebraic expressions containing more than one operation.
		Use the order of operations to evaluate algebraic expressions containing more than one operation.
	Expressions with and without Parentheses	
		Write algebraic expressions containing more than one operation, with and without parentheses.
		Use the order of operations to evaluate algebraic expressions containing more than one operation, with and without parentheses.
	Equivalent Expressions	
		Generate equivalent expressions using the commutative and associative properties.
		Use substitution to determine if two expressions are equivalent.
	Equivalent Expressions and the Distributive Property	
		Generate equivalent expressions using the distributive property.
		Use substitution to determine if two expressions are equivalent.
Equations and Inequalities		
	Writing Equations to Find Unknowns	
		Differentiate between expressions and equations.
		Translate simple word problems into one-step equations.
		Use substitution to determine whether a given number is a solution of a one-step equation.
	Solving One-Step Equations: Addition and Subtraction	
		Write and solve one-step addition equations.
		Write and solve one-step subtraction equations.
	Solving One-Step Equations: Multiplication and Division	

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		Write and solve one-step multiplication equations.
		Write and solve one-step division equations.
	Modeling Real-World Problems with One-Step Equations	
		Write and solve one-step variable equations modeling real-world contexts involving addition, subtraction, multiplication, and division of nonnegative rational numbers.
	Writing Inequalities	
		Write an inequality to represent a constraint or condition in a real-world or mathematical problem.
		Describe the set of numbers that make the inequality true.
		Write real-world scenarios given one-step inequalities.
Data and Geometry		
	Summarizing Data Sets with Statistics	
		Find the mean, median, range, and interquartile range of a data set.
		Compare two data sets with the same measure of center but different measures of spread.
	Area of Parallelograms	
		Use the formula A = bh to find the area of a parallelogram.
		Solve real-world problems involving the area of parallelograms.
	Area of Triangles	
		Calculate the area of triangles using the formula A = ½bh.
		Solve real-world problems involving the area of triangles.
Diagnostic PostTest		
	TEST	