

Basic Algebra I	Scope and Sequence		
Unit Lesson	Objectives		
Number Sense and Operations			
Prime Numbers and Prime Factorization			
	List the factors of a number.		
	Identify a number as prime or composite.		
	Represent a number as the product of its prime factors, using exponents to show repeated factors.		
Factors and Multiples			
	Determine the greatest common factor of two numbers.		
	Determine the least common multiple of two numbers.		
	Apply greatest common factors and least common multiples to solve real-world problems.		
Dividing a Fraction by a Fraction			
	Use models to divide a fraction by a fraction.		
Dividing Decimals			
	Divide whole numbers by decimals.		
	Divide decimals by decimals.		
	Use estimation to determine reasonableness.		
Integers on the Number Line			
	Identify integers.		
	Graph integers on number lines.		
	Find the opposite of an integer.		
Absolute Value			
	Define absolute value.		
	Find the absolute value of an integer.		

Basic Algebra I		Scope and Sequence
Unit	Lesson	Objectives
		Compare and order magnitudes using absolute value.
		Represent and compare real-world quantities using absolute value.
	Using Properties of Operations	
		Apply the associative and commutative properties of operations to simplify expressions.
		Apply the distributive property to rewrite and evaluate expressions.
	Operations with Integers	
		Solve integer problems involving a variety of operations while applying the properties of operations.
	Unit Test	
Ratios and Proportional Relationships		
	Using Ratio Notation	
		Use the notation of ratio language to describe relationships between two quantities.
	Understanding Unit Rates	
		Find unit rates.
	Plotting Equivalent Ratios	
		Plot tables of equivalent ratios on the coordinate plane.
		Identify patterns of plots of equivalent ratios.
	Finding a Constant of Proportionality	
		Find the constant of proportionality from verbal descriptions, tables, graphs, and diagrams.
	Identifying Proportional Relationships	
		Analyze data in tables and graphs to determine if the given relationships are proportional.
	Unit Test	

**Proportional Reasoning with Percents** 

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Introduction to Percents	
	Identify an equivalent percent, fraction, or decimal represented in multiple forms.
	Create diagrams to solve for a percent in real-world problems.
	Find the percent of a number using the fraction or decimal equivalent form of a percent to write an expression from a diagram.
Finding Friendly Percentages	
	Find 10%, 25%, or 50% of a number by dividing by 10, 4, or 2.
	Find percentages by adding familiar parts.
	Solve single-step real-world problems using friendly percentages.
Fraction-Decimal-Percent Equivalents	
	Find equivalent forms of fractions, decimals, and percents.
Simple Interest	
	Calculate simple interest, principal, time, and total using the simple interest formula.
	Apply the simple interest formula in the context of a word problem.
Percent Increase and Decrease	
	Find the percent change by using the ratio of the change in quantity to the original amount.
	Use percent increase and decrease to solve real-world problems.
Unit Test	
Expressions and Equations	
Numerical Expressions with Exponents	
	Write numerical expressions including expressions containing whole number exponents.
	Evaluate numerical expressions including expressions containing whole number exponents.
Expressions with Unknowns	

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		Read and write algebraic expressions.
		Use algebraic expressions to model real-world situations involving addition.
		Use algebraic expressions to model real-world situations involving subtraction.
Expr	essions with More Than One Operation	
		Write algebraic expressions containing more than one operation.
		Use the order of operations to evaluate algebraic expressions containing more than one operation.
Using	g Properties to Simplify Expressions	
		Simplify expressions using properties of operations and combining like terms.
Equiv Prop	valent Expressions and the Distributive erty	
		Generate equivalent expressions using the distributive property.
		Use substitution to determine if two expressions are equivalent.
Solvi Subt	ing One-Step Equations: Addition and raction	
		Write and solve one-step addition equations.
		Write and solve one-step subtraction equations.
Solvi and I	ing One-Step Equations: Multiplication Division	
		Write and solve one-step multiplication equations.
		Write and solve one-step division equations.
Unit	Test	
Cumulative Exam		
Cum	ulative Exam Review	
Cum	ulative Exam	