Prep for Mathematics 8		Scope and Sequence
Unit	**Lesson**	**Objectives**
Diagnostic PreTest		
	TEST	
Proportional Relationships		
	Graphing Proportional Relationships	
		Graph a proportional relationship from tables and verbal descriptions.
		Identify the meanings of points on the graph of a proportional relationship and determine the characteristics of the graph of a proportional relationship.
	Identifying Proportional Relationships	
		Analyze data in tables and graphs to determine if the given relationships are proportional.
	Equations of Proportional Relationships	
		Identify the constant of proportionality from an equation.
		Write an equation to represent a proportional relationship.
		Translate between tables, graphs, and equations to represent proportional relationships.
	Proportions	
		Write a proportion to represent a given relationship.
		Solve proportion problems by using equivalent fractions.
		Solve proportion problems involving complex fractions.
	Cross Products	
		Use cross products to solve for an unknown quantity in a proportion problem.
		Describe why using cross products is a valid method for solving proportions.
		Use cross products to solve real-world proportion problems.

Prep for Mathematics 8		Scope and Sequence
Unit	**Lesson**	**Objectives**
Rational Numbers		
	Solving Problems Involving Decimals	
		Solve real-world and mathematical problems involving addition, subtraction, multiplication, and division with decimals.
	Adding and Subtracting Fractions	
		Use visual representations to add and subtract fractions.
		Estimate sums and differences of fractions.
		Describe real-world contexts for adding and subtracting fractions.
	Multiplying Fractions	
		Use the rules of signed numbers and visuals to multiply fractions.
		Apply properties of operations to multiply fractions.
		Estimate products of fractions.
		Describe real-world contexts for multiplying fractions.
	Dividing Fractions	
		Use the rules of signed numbers to divide fractions.
		Apply properties of operations to divide fractions.
		Estimate quotients of fractions.
		Describe real-world contexts for dividing fractions.
	Solving Problems Involving Rational Numbers	
		Solve real-world and mathematical problems involving addition, subtraction, multiplication, and division with rational numbers.
Integers		

Prep for Mathematics 8		Scope and Sequence
Unit	**Lesson**	**Objectives**
	Integers and the Number Line	
		Represent and compare integers on vertical and horizontal number lines.
		Find the absolute value of an integer.
		Describe real-world situations that can be represented by integers, including where opposite quantities combine to make 0.
	Adding Integers	
		Use visual representations to add integers.
		Apply properties of operations to add integers.
		Describe real-world contexts for adding integers.
	Subtracting Integers	
		Use visual representations to subtract integers.
		Use additive inverse and properties of operations to subtract integers.
		Describe real-world contexts for subtracting integers.
	Multiplying Integers	
		Use visual representations to multiply integers.
		Apply properties of operations and rules of signed numbers to multiply integers.
		Describe real-world contexts for multiplying integers.
	Dividing Integers	
		Use visual representations to divide integers.
		Apply properties of operations and rules of signed numbers to divide integers.
		Describe real-world contexts for dividing integers.
Expressions		
	Understanding Expressions	

Prep for Mathematics 8		Scope and Sequence
Unit	**Lesson**	**Objectives**
		Write and evaluate numerical expressions.
		Identify the parts of an algebraic expression.
	Writing and Evaluating Expressions	
		Write expressions to represent real-world situations.
		Evaluate expressions for real-world situations.
	Using Properties to Simplify Expressions	
		Simplify expressions using properties of operations and combining like terms.
	Factoring Expressions	
		Find the greatest common factor of an algebraic expression.
		Rewrite algebraic expressions by factoring.
Equations and Inequalities		
	Writing Equations	
		Write equations from words.
		Write equations to represent real-world situations.
	Addition and Subtraction Equations	
		Solve one-step addition and subtraction equations.
		Solve one-step addition and subtraction equations in the real world and interpret the results.
	Multiplication and Division Equations	
		Solve one-step multiplication and division equations.
		Write and solve one-step multiplication and division equations in the real world and interpret the results.
	Solving Two-Step Equations	

Prep for Mathematics 8		Scope and Sequence
Unit	**Lesson**	**Objectives**
		Solve two-step equations.
		Solve two-step equations in the real world and interpret the results.
	Angle Relationships	
		Identify supplementary, complementary, vertical, and adjacent angles.
		Use special relationships between angle pairs to find an unknown angle measure.
	Finding Unknown Angle Measures	
		Use angle relationships to find unknown measures in a figure.
Diagnostic PostTest		
	TEST	