TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
Equivalent Forms of Fractions, Decimals, and Percents		
	Describing Part-to-Part Relationships	
		Describe ratio relationships between two quantities using informal language.
		Use models to represent relationships between quantities.
		Analyze how a change in a quantity affects a part-to-part relationship.
	Using Ratio Notation	
		Use the notation of ratio language to describe relationships between two quantities.
	Patterns in the Multiplication Table	
		Identify equivalent ratios in the multiplication table.
		Analyze patterns of equivalent ratios in the multiplication table.
	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.
	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.
	Using Multiplication to Find Percents	

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
		Find any percent of a number by multiplying by the equivalent decimal.
		Use unit-fraction equivalents to generate additional equivalents.
		Use estimation to determine whether the answers are reasonable.
	Performance Task: Neighbors Helping Neighbors	
	Unit Test	
Ordering Fractions, Decimals, and Integers		
	Integers on the Number Line	
		Identify integers.
		Graph integers on number lines.
		Find the opposite of an integer.
	Plotting Positive and Negative Fractions	
		Graph negative fractions on a number line.
		Use a number line to compare and order positive and negative fractions.
	Comparing Rational Numbers	
		Graph rational numbers on a number line.
		Define rational numbers and classify numbers.
		Use a number line to compare rational numbers in a real-world context.
	Ordering Rational Numbers	
		Order rational numbers using a number line.
		Write and interpret statements of comparison for rational numbers in real-world contexts.
	Unit Test	

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
Operations with Positive Fractions and Decimals		
	Multiplying a Fraction by a Fraction	
		Explain the algorithm for multiplying a/b × c/d through visual representations.
		Explain a/b × c/d as a fractional part of a fraction.
		Multiply fractions and mixed numbers.
		Real-World Application: Solve a variety of problems involving a fractional part of a fraction.
	Fraction Multiplication	
		Multiply fractions using models.
		Multiply fractions using the standard algorithm.
		Estimate solutions and solve real-world single and multistep problems involving fraction multiplication.
	Dividing a Fraction by a Whole Number	
		Divide a fraction by a whole number equal to the fraction's denominator in real-world situations.
		Divide a fraction by a whole number using an equivalent fraction in real-world situations.
	Dividing a Fraction by a Fraction	
		Use models to divide a fraction by a fraction.
	Finding a Rule for Dividing Fractions	
		Use the standard algorithm to divide fractions.
	Fraction Multiplication and Division	
		Solve real-world problems using fraction multiplication or division.
	Unit Test	
Operations with Integers		

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
	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.
	Absolute Value	
		Define absolute value.
		Find the absolute value of an integer.
		Compare and order magnitudes using absolute value.
		Represent and compare real-world quantities using absolute value.
	Unit Test	

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
Proportional Reasoning with 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.
	Measurements in the Customary System	
		Convert units of measurement in the customary system.
		Solve real-world problems by converting customary measurement units.
	Measurements in the Metric System	
		Convert units of measurement in the metric system.
		Solve real-world problems by converting metric measurement units.
	Understanding Speed	
		Find speed given distance and time.
		Convert measures of speed within a system.
	Unit Pricing	
		Find unit prices.
		Solve unit rate problems involving unit pricing.

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
	Proportions	
		Write a proportion to represent a given relationship.
		Solve proportion problems by using equivalent fractions.
		Solve proportion problems involving complex fractions.
	Scale Factor	
		Use a given scale factor to find an unknown length on a reduction or enlargement.
		Use a given scale factor to find an unknown length on an original.
	Unit Test	
Cumulative Exam		
	Cumulative Exam Review	
	Cumulative Exam	
Equivalent Expressions and One-Variable Equations		
	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.
	The Distributive Property	
		Use the distributive property to generate equivalent expressions.
	Numerical Expressions with Exponents	
		Write numerical expressions including expressions containing whole number exponents.
		Evaluate numerical expressions including expressions containing whole number exponents.

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
	Equivalent Expressions and the Distributive Property	
		Generate equivalent expressions using the distributive property.
		Use substitution to determine if two expressions are equivalent.
	Determining Equivalent Expressions	
		Determine whether two expressions are equivalent.
		Explain why two expressions are equivalent or not equivalent.
	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	
		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.
	Unit Test	
One-Variable Inequalities		

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
	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.
	Model and Solve One-Variable Inequalities	
		Model real-world and geometric problems using one-step inequalities.
		Solve real-world and geometric problems using one-step inequalities.
	Graphing Inequalities on a Number Line	
		Recognize that inequalities of the form x > c or x < c have infinitely many solutions.
		Graph solutions of one-step inequalities on number line diagrams.
	Unit Test	
Algebraic Representations of Two-Variable Relationships		
	The Coordinate Plane	
		Identify the parts of the coordinate plane.
		Graph and name points in Quadrant I.
	Plotting Points in the Four Quadrants	
		Graph and name points in all four quadrants.
		Identify the quadrant in which a point lies.
		Describe the relationship between ordered pairs that differ only in sign.
	Fractional Coordinates	
		Graph and name points that contain a fraction.

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
		Graph and name points that contain a decimal.
	Modeling Relationships Between Real-World Quantities	
		Use a table to determine the proportional relationship between two real-world quantities.
		Analyze a table to determine its correspondence to a real-world situation.
	Relating Relationships Shown in Tables to Equations	
		Analyze the relationship between dependent and independent variables.
		Write an equation to represent two quantities in a real-world situation.
	Comparing Representations of Modeled Relationships	
		Create a graph to show a proportional relationship between two real-world quantities (using a table of values).
		Compare multiple representations of the relationship between two real-world quantities.
	Unit Test	
Geometry and Measurement		
	Finding Unknown Angle Measures	
		Use angle relationships to find unknown measures in a figure.
	Constructing Triangles	
		Construct triangles from given parameters.
		Identify whether given parameters create a unique triangle, more than one triangle, or no triangle.
	Finding Area on a Coordinate Plane	
		Find lengths of sides for rectangles drawn in the coordinate plane.
		Calculate the area of a rectangle drawn in the coordinate plane.
	Area of Parallelograms	

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
		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.
	Area of Special Quadrilaterals	
		Find the area of special quadrilaterals.
		Solve real-world problems involving the area of special quadrilaterals.
	Finding a Formula for the Volume of a Rectangular Prism	
		Use the formulas V = lwh and V = Bh to find the volumes of right rectangular prisms.
	Unit Test	
Data Analysis		
	Plotting Data on a Dot Plot	
		Distinguish between statistical and nonstatistical questions.
		Display data on a dot plot.
	Describing Data on Dot Plots	
		Describe a data set as shown on a dot plot, using the center, spread, and overall shape.
	Representing Data Sets with Histograms	
		Display data on a histogram.
		Describe a data set as shown on a histogram, using the center, spread, and overall shape.
	Data Representation	

Unit	Lesson	Objectives
		Interpret different types of data displays.
		Identify an appropriate representation for displaying different data sets.
	Finding the Mean	
		Calculate the mean of a set of data.
		Explain how the mean of a set of data is a balance point.
		Find a missing value in a set of data given the mean.
	Comparing Mean and Median	
		Find the median of a set of data.
		Describe the impact of outliers on the mean and median.
		Choose the most appropriate measure of center to describe a set of data.
	Range and Interquartile Range	
		Define and find the range of a set of data.
		Define and find the interquartile range of a set of data.
		Describe the impact of outliers on the range and interquartile range.
	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.
	Box Plots	
		Interpret a box plot.
		Create a box plot to represent a set of data, given the summary statistics.
	Data Displays and Statistics	
		Interpret the shape of a data set in the context of the way in which data was collected.

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
		Describe the impact of the number of observations on the shape of the data.
		Compare two data sets using measures of center and spread.
	Unit Test	
Personal Financial Literacy		
	Understanding Checking and Debit Accounts	
		Compare checking accounts and debit cards offered by different financial institutions.
		Perform calculations for deposits, withdrawals, and transfers to balance a check register.
	Understanding Credit	
		Differentiate between debit cards and credit cards.
		Explain the importance of establishing a positive credit history.
		Identify the information in a credit report and its value to borrowers and lenders.
	Understanding College Savings	
		Differentiate between various methods to pay for college, including through savings, grants, scholarships, student loans, and work-study.
		Analyze situations involving paying for college.
	Careers, Salaries, and Lifetime Income	
		Describe factors that influence career decisions.
		Compare annual salaries of different occupations.
		Calculate the effects of different annual salaries on lifetime income.
	Unit Test	
Cumulative Exam		
	Cumulative Exam Review	

TX-Math 6		Scope and Sequence
Unit	**Lesson**	**Objectives**
	Cumulative Exam	