

Options FRMS Math 6B-OR		Scope and Sequence
Unit	Lesson	Objectives
Equa	tions	
	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.
	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.
	Graphing Inequalities on a Number Line	
		Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions.

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		Graph solutions of one-step inequalities on number line diagrams.
	Unit Test	
The I	Rational Number System	
	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.
	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.
	Dividing a Fraction by a Fraction	
		Use models to divide a fraction by a fraction.
	Ordering Rational Numbers	
		Order rational numbers using a number line.

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Unit Le	esson	Objectives
		Write and interpret statements of comparison for rational numbers in real-world contexts.
Ab	osolute 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.
Ur	nit Test	
Two-Dim	nensional Geometry	
Plo	otting 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.
Dis	stance between Two Points	
		Use a number line to find the distance between two points in the same quadrant that have the same x- or y-coordinate.
		Use absolute value to find the distance between two points in different quadrants that have the same x- or y-coordinate.
Po	blygons in the Coordinate Plane	
		Identify polygons on the coordinate plane given coordinates of the vertices.
		Find lengths of sides for polygons drawn on the coordinate plane.
Ar	ea of Triangles	
		Calculate the area of triangles using the formula $A = \frac{1}{2}bh$.
		Solve real-world problems involving the area of triangles.

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	Area of Special Quadrilaterals	
		Find the area of special quadrilaterals.
		Solve real-world problems involving the area of special quadrilaterals.
	Unit Test	
Three	e-Dimensional Geometry	
	Surface Area of Prisms	
		Represent rectangular and triangular prisms using nets.
		Use nets of rectangular and triangular prisms to find surface area.
	Surface Area of Rectangular Pyramids	
		Represent square and rectangular pyramids using nets.
		Calculate the surface area of square and rectangular pyramids using nets.
	Application of Surface Area in Context	
		Solve real-world surface area problems using nets.
	Exploring Volume of a Rectangular Prism	
		Calculate the volume of a right rectangular prism with whole number edge lengths.
		Calculate the volume of a right rectangular prism with fractional edge lengths.
	Finding a Formula for the Volume of a Rectangular Prism	
		Use the formulas $V = Iwh$ and $V = Bh$ to find the volumes of right rectangular prisms.
	Solving Volume Problems with Formulas	
		Calculate the volume of a rectangular prism with one or more fraction or decimal side lengths using a formula.
		Find the value of an unknown dimension of a rectangular prism, given the remaining dimensions and the

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		volume.
	Solving Surface Area and Volume Problems	
		Identify whether a problem requires the calculation of surface area or volume.
		Solve real-world problems about surface area and volume.
	Unit Test	
Variability, Distributions, and Relationships		s between Quantities: Part One
	Data Representation	
		Interpret different types of data displays.
		Identify an appropriate representation for displaying different data sets.
	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.
	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.

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	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.
	Unit Test	
Varia	bility, Distributions, and Relationship	s between Quantities: Part Two
	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.
	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.
	Mean Absolute Deviation	
		Calculate the mean absolute deviation for a set of data.
		Interpret the mean absolute deviation of a set of data.

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		Describe the impact of outliers on the mean absolute deviation.
	Data Displays and Statistics	
		Interpret the shape of a data set in the context of the way in which data was collected.
		Describe the impact of the number of observations on the shape of the data.
		Compare two data sets using measures of center and spread.
	Performance Task: Exciting Entertainment	
	Unit Test	