

Table of Contents

6.RP.1	1	6.EE.2c	7
6.RP.2	1	6.EE.3	7
6.RP.3	1	6.EE.3	8
6.RP.3a	1	6.EE.4	8
6.RP.3a	2	6.EE.5	8
6.RP.3b	2	6.EE.6	8
6.RP.3c	2	6.EE.6	9
6.RP.3d	2	6.EE.7	9
6.NS.1	3	6.EE.8	9
6.NS.2	3	6.EE.9	10
6.NS.3	3	6.G.1	10
6.NS.4	4	6.G.2	11
6.NS.5	4	6.G.3	11
6.NS.6	4	6.G.4	11
6.NS.6a	4	6.SP.1	11
6.NS.6b	4	6.SP.2	12
6.NS.6b	5	6.SP.3	12
6.NS.6c	5	6.SP.4	12
6.NS.7a	5	6.SP.5	13
6.NS.7b	5	6.SP.5a	13
6.NS.7c	5	6.SP.5b	13
6.NS.7d	5	6.SP.5c	14
6.NS.8	6	6.SP.5d	14
6.EE.1	6		
6.EE.2	6		
6.EE.2a	6		
6.EE.2b	7		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.RP.1	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.	Textbook	2: Relating Quantities	1: Ratios	1: It's All Relative: Introduction to Ratio and Ratio Reasoning pp. M2-7–M2-24
					2: Going Strong: Comparing Quantities to Solve Problems pp. M2-25–M2-36
					3: Oh, Yes, I Am the Muffin Man: Determining Equivalent Ratios pp. M2-37–M2-56
					4: A Trip to the Moon: Using Tables to Represent Equivalent Ratios pp. M2-57–M2-68
					5: They're Growing!: Graphs of Ratios pp. M2-69–M2-84
		6: One Is Not Enough: Using and Comparing Ratio Representations pp. M2-85–M2-98			
MATHia Software	2: Relating Quantities	1: Ratio Reasoning	1: Understanding Ratio Relationships		
6.RP.2	Understand the concept of a unit rate a / b associated with a ratio $a : b$ with $b \neq 0$, and use rate language in the context of a ratio relationship.	Textbook	2: Relating Quantities	3: Unit Rates and Conversions	2: What Is the Best Buy?: Introduction to Unit Rates pp. M2-185–M2-198
6.RP.3	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.	Textbook	2: Relating Quantities	1: Ratios	2: Going Strong: Comparing Quantities to Solve Problems pp. M2-25–M2-36
					3: Oh, Yes, I Am the Muffin Man: Determining Equivalent Ratios pp. M2-37–M2-56
6.RP.3a	Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	Textbook	2: Relating Quantities	1: Ratios	4: A Trip to the Moon: Using Tables to Represent Equivalent Ratios pp. M2-57–M2-68
					5: They're Growing!: Graphs of Ratios pp. M2-69–M2-84
					6: One Is Not Enough: Using and Comparing Ratio Representations pp. M2-85–M2-98

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.RP.3a	Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	MATHia Software	2: Relating Quantities	1: Ratio Reasoning	3: Equivalent Ratios
				2: Problem Solving and Ratio and Rate Reasoning	4: Multiple Representations Of Ratios
					1: Problem Solving with Equivalent Ratios and Rates Using Tables
					2: Problem Solving with Equivalent Ratios and Rates Using Double Number Lines
3: Problem Solving with Equivalent Ratios and Rates Using Graphs					
6.RP.3b	Solve unit rate problems including those involving unit pricing and constant speed.	Textbook	2: Relating Quantities	3: Unit Rates and Conversions	2: What Is the Best Buy?: Introduction to Unit Rates pp. M2-185–M2-198
		MATHia Software	2: Relating Quantities	4: Rate Reasoning	3: Seeing Things Differently: Multiple Representations of Unit Rates pp. M2-199–M2-208
					1: Fractional Rates
					2: Comparing Rates
6.RP.3c	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	Textbook	2: Relating Quantities	2: Percents	1: We Are Family!: Percent, Fraction, and Decimal Equivalents pp. M2-109–M2-122
		MATHia Software	2: Relating Quantities	3: Introduction to Percent	2: Warming the Bench: Using Estimation and Benchmark Percents pp. M2-123–M2-136
					3: The Forest for the Trees: Determining the Part and the Whole in Percent Problems pp. M2-137–M2-156
					1: Percent Models
					2: Fraction, Decimal, Percent Conversions
		3: Determining a Part Given a Whole			
		4: Determining a Whole Give a Percent and a Part			
		6.RP.3d	Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.	Textbook	2: Relating Quantities
MATHia Software	2: Relating Quantities			5: Ratio Reasoning to Convert Units	1: Converting Within Systems
					2: Converting Between Systems

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.NS.1	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.	Textbook	1: Composing and Decomposing	2: Positive Rational Numbers	1: Thinking Rationally: Identifying and Ordering Rational Numbers pp. M1-71–M1-82
					2: Did You Get the Part?: Multiplying and Dividing with Fractions pp. M1-83–M1-92
		MATHia Software	1: Composing and Decomposing	3: Fraction Division	3: Yours IS to Reason Why!: Fraction by Fraction Division pp. M1-93–M1-106
					1: Representing Fraction Division
2: Interpreting Remainders using Models					
3: Developing the Fraction Division Algorithm					
4: Multiplying and Dividing Rational Numbers					
6.NS.2	Fluently divide multi-digit numbers using the standard algorithm.	Textbook	1: Composing and Decomposing	3: Decimals and Volume	4: Dividend in the House: Dividing with Volume and Surface Area pp. M1-165–M1-175
					3: Fraction Division
		MATHia Software	1: Composing and Decomposing	4: Decimal Operations	3: Developing the Fraction Division Algorithm
					5: Multiplying and Dividing Decimals
6: Decimal Products and Quotients					
6.NS.3	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	Textbook	1: Composing and Decomposing	3: Decimals and Volume	1: Length, Width, and Depth: Deepening Understanding of Volume pp. M1-115–M1-130
					2: Which Warehouse?: Volume Composition and Decomposition pp. M1-131–M1-142
					3: Breaking the Fourth Wall: Surface Area of Rectangular Prisms and Pyramids pp. M1-143–M1-164
					4: Dividend in the House: Dividing with Volume and Surface Area pp. M1-165–M1-175
		MATHia Software	1: Composing and Decomposing	4: Decimal Operations	1: Converting Fractions to Decimals
					2: Adding and Subtracting Decimals
					3: Decimal Sums and Differences
					4: Exploring Decimal Facts
5: Multiplying and Dividing Decimals					
6: Decimal Products and Quotients					

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.NS.4	Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 100 with a common factor as a multiple of a sum of two whole numbers with no common factor.	Textbook	1: Composing and Decomposing	1: Factors and Area	4: Searching for Common Ground: Common Factors and Common Multiples pp. M1-39–M1-50
					5: Composing and Decomposing Numbers: Least Common Multiple and Greatest Common Factor pp. M1-51–M1-60
6.NS.5	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	1: Human Number Line: Introduction to Negative Numbers pp. M4-7–M4-22
		MATHia Software	4: Beyond Positive Quantities	1: Integers	1: Introduction to Negative Numbers
6.NS.6	Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.	MATHia Software	4: Beyond Positive Quantities	1: Integers	1: Introduction to Negative Numbers
6.NS.6a	Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	1: Human Number Line: Introduction to Negative Numbers pp. M4-7–M4-22
		MATHia Software	4: Beyond Positive Quantities	1: Integers	2: Representing Integers on Number Lines
6.NS.6b	Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	1: Four Is Better Than One: Extending the Coordinate Plane pp. M4-57–M472

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.NS.6b	Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	MATHia Software	4: Beyond Positive Quantities	2: The Coordinate Plane	1: Exploring Symmetry on the Coordinate Plane
6.NS.6c	Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	1: Human Number Line: Introduction to Negative Numbers pp. M4-7-M4-22
		MATHia Software	4: Beyond Positive Quantities	2: The Four Quadrants	1: Four Is Better Than One: Extending the Coordinate Plane pp. M4-57-M472
		MATHia Software	4: Beyond Positive Quantities	2: The Coordinate Plane	1: Exploring Symmetry on the Coordinate Plane
		MATHia Software	4: Beyond Positive Quantities	2: The Coordinate Plane	2: Identifying and Interpreting Ordered Pairs
6.NS.7a	Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	1: Human Number Line: Introduction to Negative Numbers pp. M4-7-M4-22
		MATHia Software	4: Beyond Positive Quantities	1: Integers	2: Representing Integers on Number Lines
6.NS.7b	Write, interpret, and explain statements of order for rational numbers in real world contexts.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	1: Human Number Line: Introduction to Negative Numbers pp. M4-7-M4-22
		MATHia Software	4: Beyond Positive Quantities	1: Integers	3: Using Absolute Value
6.NS.7c	Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	2: Magnificent Magnitude: Absolute Value pp. M4-23-M4-34
		MATHia Software	4: Beyond Positive Quantities	1: Integers	3: What's In a Name?: Rational Number System pp. M4-35-M-46
6.NS.7d	Distinguish comparisons of absolute value from statements about order.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	2: Magnificent Magnitude: Absolute Value pp. M4-23-M4-34
		MATHia Software	4: Moving Beyond Positive Quantities	1: Integers	3: What's In a Name?: Rational Number System pp. M4-35-M-46
MATHia Software	4: Moving Beyond Positive Quantities	1: Integers	3: Using Absolute Value		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.NS.8	Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	1: Four Is Better Than One: Extending the Coordinate Plane pp. M4-57–M472 2: It's a Bird, It's a Plane... It's a Polygon on the Plane!: Graphing Geometric Figures pp. M4-73–M4-86 3: There Are Many Paths . . . : Problem Solving on the Coordinate Plane pp. M4-87–M4-111
		MATHia Software	4: Beyond Positive Quantities	2: The Coordinate Plane	4: Drawing Polygons on the Coordinate Plane
6.EE.1	Write and evaluate numerical expressions involving whole-number exponents.	Textbook	3: Unknown Quantities	1: Expressions	1: Relationships Matter: Evaluating Numeric Expressions pp. M3-7–M3-22
		MATHia Software	3: Determining Unknown Quantities	1: Numeric Expressions	5: Contrasting Addition and Subtraction with Multiplication and Division to Simplify Numeric Expressions
					6: Using Order of Operations to Simplify Numeric Expressions with Four Operations
					7: Using Order of Operations to Simplify Numeric Expressions with Parentheses and Exponents
8: Using Order of Operations to Simplify Numeric Expressions					
6.EE.2	Write, read, and evaluate expressions in which letters stand for numbers.	Textbook	3: Unknown Quantities	1: Expressions	2: Into the Unknown: Introduction to Algebraic Expressions pp. M3-23–M3-34
		MATHia Software	3: Determining Unknown Quantities	1: Numeric Expressions	1: Expression Evaluation Using Whole Numbers (Positive values only) 2: Evaluating Two-Step Expressions with Whole Numbers
6.EE.2a	Write expressions that record operations with numbers and with letters standing for numbers.	Textbook	3: Unknown Quantities	1: Expressions	2: Into the Unknown: Introduction to Algebraic Expressions pp. M3-23–M3-34
					3: Second Verse, Same as the First: Equivalent Expressions pp. M3-35–M3-52
					5: DVDs and Songs: Using Algebraic Expressions to Analyze and Solve Problems pp. M3-67–M3-76

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.EE.2b	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity.	Textbook	1: Composing and Decomposing	1: Factors and Area	1: Taking Apart Numbers and Shapes: Writing Equivalent Expressions Using the Distributive Property pp. M1-7–M1-14
			3: Unknown Quantities	1: Expressions	2: Into the Unknown: Introduction to Algebraic Expressions pp. M3-23–M3-34
6.EE.2c	Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).	Textbook	3: Unknown Quantities	1: Expressions	2: Into the Unknown: Introduction to Algebraic Expressions pp. M3-23–M3-34
					5: DVDs and Songs: Using Algebraic Expressions to Analyze and Solve Problems pp. M3-67–M3-76
		MATHia Software	3: Determining Unknown Quantities	2: Algebraic Expressions	1: Evaluating Multi-Step Expressions
					2: Evaluating Expressions with Multiple Variables
6.EE.3	Apply the properties of operations to generate equivalent expressions.	Textbook	1: Composing and Decomposing	1: Factors and Area	1: Taking Apart Numbers and Shapes: Writing Equivalent Expressions Using the Distributive Property pp. M1-7–M1-14
					3: Unknown Quantities
		MATHia Software	1: Composing and Decomposing	1: Number Properties	
					3: Determining Unknown Quantities
					3: Using the Distributive Property with Numeric Expressions
			3: Order of Operations		
			4: Simplifying Numeric Expressions		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.EE.3	Apply the properties of operations to generate equivalent expressions.	MATHia Software	3: Determining Unknown Quantities	3: Equivalent Algebraic Expressions	2: Exploring the Distributive Property with Algebraic Expressions
					3: Contrasting Addition and Subtraction with Multiplication and Division to Simplify Algebraic Expressions
					4: Using Order of Operations to Simplify Algebraic Expressions with Four Operations
					5: Using Order of Operations to Simplify Algebraic Expressions with Parentheses and Exponents
					6: Using Order of Operations to Simplify Algebraic Expressions
6.EE.4	Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them).	Textbook	3: Unknown Quantities	1: Expressions	4: Are They Saying the Same Thing?: Verifying Equivalent Expressions pp. M3-53–M3-66
		MATHia Software	3: Determining Unknown Quantities	3: Equivalent Algebraic Expressions	1: Modeling Equivalent Algebraic Expressions
6.EE.5	Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	Textbook	3: Unknown Quantities	2: Equations	1: First Among Equals: Reasoning with Equal Expressions pp. M3-87–M3-106
		MATHia Software	3: Determining Unknown Quantities	5: Solving One-Step Equations	3: Using Substitution to Identify Solutions To Equations
6.EE.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	Textbook	3: Unknown Quantities	1: Expressions	5: DVDs and Songs: Using Algebraic Expressions to Analyze and Solve Problems pp. M3-67–M3-76
				2: Equations	2: Bar None: Solving One-Step Addition Equations pp. M3-107–M3-118
					3: Play It in Reverse: Solving One-Step Multiplication Equations pp. M3-119–M3-134
					4: Getting Real: Solving Equations to Solve Problems pp. M3-135–M3-144

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)	
6.EE.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	MATHia Software	3: Determining Unknown Quantities	4: Reasoning with Expressions and Equations	4: Patterns and One-Step Expressions	
				7: Problem Solving with One-Step Equations	1: Patterns and One-Step Equations	
					2: Problem Solving with Multiple Representations in the First Quadrant	
6.EE.7	Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p , q and x are all nonnegative rational numbers.	Textbook	3: Unknown Quantities	2: Equations	2: Bar None: Solving One-Step Addition Equations pp. M3-107–M3-118	
					3: Play It in Reverse: Solving One-Step Multiplication Equations pp. M3-119–M3-134	
					4: Getting Real: Solving Equations to Solve Problems pp. M3-135–M3-144	
		MATHia Software	4: Reasoning with Expressions and Equations	3: Determining Unknown Quantities	5: Solving One-Step Equations	1: Using Picture Algebra with Addition, Subtraction and Multiplication
						2: Using Picture Algebra with Multiplication, Total Given
						3: Using Picture Algebra with Addition and Subtraction, Total Given
			7: Problem Solving with One-Step Equations	1: Solving One-Step Equations with a Balance		
				2: Representing One-Step Equations		
				4: Solving with Addition and Subtraction (No Type In)		
			5: Solving One-Step Equations (Type In)	5: Solving with Multiplication and Division (No Type In)		
				6: Solving One-Step Equations (Type In)		
				1: Patterns and One-Step Equations		
2: Problem Solving with Multiple Representations in the First Quadrant	2: Problem Solving with Multiple Representations in the First Quadrant					
	3: Problem Solving with Decimals					
	6.EE.8	Textbook	3: Unknown Quantities	2: Equations	1: First Among Equals: Reasoning with Equal Expressions pp. M3-87–M3-106	
MATHia Software					3: Determining Unknown Quantities	6: Solving One-Step Inequalities
		4: Beyond Positive Quantities	1: Integers	4: Graphing Inequalities with Rational Numbers		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.EE.9	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.	Textbook	3: Unknown Quantities	2: Equations	4: Getting Real: Solving Equations to Solve Problems pp. M3-135–M3-144
				3: Graphing Quantitative Relationships	1: Every Graph Tells a Story: Independent and Dependent Variables pp. M3-155–M3-182
			2: The Power of the Horizontal Line: Using Graphs to Solve One-Step Equations pp. M3-183–M3-193		
			3: Planes, Trains, and Paychecks: Multiple Representations of Equations pp. M3-194–M3-206		
		4: Triathlon Training: Relating Distance, Rate, and Time pp. M3-207–M3-220			
		4: Moving Beyond Positive Quantities	2: The Four Quadrants	3: There Are Many Paths . . . : Problem Solving on the Coordinate Plane pp. M4-87–M4-111	
MATHia Software	3: Determining Unknown Quantities	4: Reasoning with Expressions and Equations	4: Patterns and One-Step Expressions		
	4: Moving Beyond Positive Quantities	3: Multiple Representations	1: Solving One-Step Equations Using Multiple Representations in Four Quadrants		
6.G.1	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	Textbook	1: Composing and Decomposing	1: Factors and Area	2: All About That Base...and Height: Area of Triangles and Quadrilaterals pp. M1-15–M1-28
					3: Slicing and Dicing: Composite Figures pp. M1-29–M1-38
		MATHia Software	1: Composing and Decomposing	2: Area	1: Developing Area Formulas
					2: Calculating Area of Various Figures
3: Solving Area Problems					
4: Calculating Area of Composite Figures					

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.G.2	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V=lwh$ and $V=bh$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems	Textbook	1: Composing and Decomposing	3: Decimals and Volume	1: Length, Width, and Depth: Deepening Understanding of Volume pp. M1-115–M1-130 2: Which Warehouse?: Volume Composition and Decomposition pp. M1-131–M1-142
		MATHia Software	1: Composing and Decomposing	5: Volume and Surface Area	1: Calculating Volume of Right Prisms 2: Calculating Surface Area of Right Prisms
6.G.3	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	2: It's a Bird, It's a Plane... It's a Polygon on the Plane!: Graphing Geometric Figures pp. M4-73–M4-86
		MATHia Software	4: Moving Beyond Positive Quantities	2: The Coordinate Plane	4: Drawing Polygons on the Coordinate Plane
6.G.4	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	Textbook	1: Composing and Decomposing	3: Decimals and Volume	3: Breaking the Fourth Wall: Surface Area of Rectangular Prisms and Pyramids pp. M1-143–M1-164
		MATHia Software	1: Composing and Decomposing	5: Volume and Surface Area	3: Calculating Surface Area of Right Prisms
6.SP.1	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	1: What's Your Question?: Understanding the Statistical Process pp. M5-7–M5-24

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.SP.2	Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	2: Get in Shape: Analyzing Numerical Data Displays pp. M5-25–M5-46
					3: Skyscrapers: Using Histograms to Display Data pp. M5-47–M5-60
				2: Numerical Summaries of Data	1: In the Middle: Analyzing Data Using Measures of Center pp. M5-71–M5-86
					2: Box It Up: Displaying the Five-Number Summary pp. M5-87–M5-104
3: March MADness: Mean Absolute Deviation pp. M5-105–M5-116					
6.SP.3	Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	Textbook	5: Describing Variability of Quantities	2: Numerical Summaries of Data	1: In the Middle: Analyzing Data Using Measures of Center pp. M5-71–M5-86
					2: Box It Up: Displaying the Five-Number Summary pp. M5-87–M5-104
					3: March MADness: Mean Absolute Deviation pp. M5-105–M5-116
		MATHia Software	5: Describing Variability of Quantities	1: Measures of Central Tendency	2: Determining Appropriate Measures
3: Mean Absolute Deviation	1: Calculating Mean Absolute Deviation				
2: Using Mean Absolute Deviation					
6.SP.4	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	2: Get in Shape: Analyzing Numerical Data Displays pp. M5-25–M5-46
					3: Skyscrapers: Using Histograms to Display Data pp. M5-47–M5-60
				2: Numerical Summaries of Data	2: Box It Up: Displaying the Five-Number Summary pp. M5-87–M5-104
					MATHia Software
		2: Creating and Interpreting Dot Plots			
		3: Creating and Interpreting Histograms			
4: Box Plots	1: Constructing Box Plots				
	2: Interpreting Box Plots				

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.SP.5	Summarize numerical data sets in relation to their context, such as by:	MATHia Software	5: Describing Variability of Quantities	4: Box Plots	1: Constructing Box Plots
					2: Interpreting Box Plots
6.SP.5a	Reporting the number of observations	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	2: Get in Shape: Analyzing Numerical Data Displays pp. M5-25–M5-46
					3: Skyscrapers: Using Histograms to Display Data pp. M5-47–M5-60
		MATHia Software	5: Describing Variability of Quantities	2: Displays of Numerical Data	4: You Chose...Wisely: Choosing Appropriate Measures pp. M5-117–M5-130
					1: Creating and Interpreting Stem Plots
6.SP.5b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	2: Get in Shape: Analyzing Numerical Data Displays pp. M5-25–M5-46
					3: Skyscrapers: Using Histograms to Display Data pp. M5-47–M5-60
		MATHia Software	5: Describing Variability of Quantities	2: Displays of Numerical Data	1: Creating and Interpreting Stem Plots
					2: Creating and Interpreting Dot Plots
					3: Creating and Interpreting Histograms

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.SP.5c	Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	2: Get in Shape: Analyzing Numerical Data Displays pp. M5-25–M5-46
					3: Skyscrapers: Using Histograms to Display Data pp. M5-47–M5-60
				2: Numerical Summaries of Data	1: In the Middle: Analyzing Data Using Measures of Center pp. M5-71–M5-86
					2: Box It Up: Displaying the Five-Number Summary pp. M5-87–M5-104
		MATHia Software	5: Describing Variability of Quantities	1: Measures of Central Tendency	3: March MADness: Mean Absolute Deviation pp. M5-105–M5-116
					4: You Chose...Wisely: Choosing Appropriate Measures pp. M5-117–M5-130
MATHia Software	5: Describing Variability of Quantities	3: Mean Absolute Deviation	1: Calculating Mean, Median, Mode, and Range		
			1: Calculating Mean Absolute Deviation 2: Using Mean Absolute Deviation		
6.SP.5d	Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered..	Textbook	5: Describing Variability of Quantities	2: Numerical Summaries of Data	4: You Chose...Wisely: Choosing Appropriate Measures pp. M5-117–M5-130
		MATHia Software	5: Describing Variability of Quantities	1: Measures of Central Tendency	3: Measuring the Effects of Changing Data Sets