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Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
8.NS.1a	Recognize the differences between rational and irrational numbers.	Textbook	4: Expanding Number Systems	1: The Real Number System	1: So Many Numbers, So Little Time: Sorting Numbers pp. M4-7–M4-16 2: Rational Decisions: Rational and Irrational Numbers pp. M4-17–M4-30
		MATHia Software	4: Expanding Number Systems	1: Rational and Irrational Numbers	1: Introduction to Irrational Numbers
8.NS.1b	Understand that all real numbers have a decimal expansion.	Textbook	4: Expanding Number Systems	1: The Real Number System	2: Rational Decisions: Rational and Irrational Numbers pp. M4-17–M4-30
		MATHia Software	4: Expanding Number Systems	1: Rational and Irrational Numbers	2: Graphing Real Numbers on a Number Line 3: Ordering Rational and Irrational Numbers
8.NS.1c	Model the hierarchy of the real number system, including natural, whole, integer, rational, and irrational numbers.	Textbook	4: Expanding Number Systems	1: The Real Number System	3: What Are Those?!: The Real Numbers pp. M4-31–M4-45
		MATHia Software	4: Expanding Number Systems	1: Rational and Irrational Numbers	1: Introduction to Irrational Numbers
8.NS.2	Estimate and compare the value of irrational numbers by plotting them on a number line.	Textbook	4: Expanding Number Systems	1: The Real Number System	3: What Are Those?!: The Real Numbers pp. M4-31–M4-45
		MATHia Software	4: Expanding Number Systems	1: Rational and Irrational Numbers	1: Introduction to Irrational Numbers 2: Graphing Real Numbers on a Number Line 3: Ordering Rational and Irrational Numbers
8.NS.3	Extend prior knowledge to translate among multiple representations of rational numbers (fractions, decimal numbers, percentages). Include the conversion of repeating decimal numbers to fractions.	Textbook	4: Expanding Number Systems	1: The Real Number System	1: So Many Numbers, So Little Time: Sorting Numbers pp. M4-7–M4-16
					2: Rational Decisions: Rational and Irrational Numbers pp. M4-17–M4-30
					3: What Are Those?!: The Real Numbers pp. M4-31–M4-45
8.EE.1	Know and apply the properties of integer exponents to generate equivalent numerical expressions.	Textbook	5: Applying Powers	1: Exponents and Scientific Notation	1: A Decrease in Power: Properties of Powers with Integer Exponents pp. M5-7–M5-22

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>8.EE1.1</b>	Know and apply the properties of integer exponents to generate equivalent numerical expressions.	MATHia Software	5: Applying Powers	1: Properties of Whole Number Exponents	1: Introduction to the Power Rules
					2: Using the Product Rule and the Quotient Rule
					3: Using the Power to a Power Rule
					4: Using the Product to a Power and the Quotient to a Power Rule
					5: Rewriting Expressions with Negative and Zero Exponents
<b>8.EE1.2</b>	Investigate concepts of square and cube roots.	Textbook	4: Expanding Number Systems	1: The Real Number System	3: What Are Those?: The Real Numbers pp. M4-31–M4-45
<b>8.EE1.2a</b>	Find the exact and approximate solutions to equations of the form $x^2 = p$ and $x^3 = p$ where $p$ is a positive rational number.	Textbook	4: Expanding Number Systems	1: The Real Number System	3: What Are Those?: The Real Numbers pp. M4-31–M4-45
				2: The Pythagorean Theorem	1: The Right Triangle Connection: The Pythagorean Theorem pp. M4-55–M4-74
					2: Can That Be Right?: The Converse of the Pythagorean Theorem pp. M4-75–M4-86
					3: Pythagoras Meets Descartes: Distances in a Coordinate System pp. M4-87–M4-98
		MATHia Software	4: Expanding Number Systems	2: The Pythagorean Theorem	4: Catty Corner: Side Lengths in Two- and Three-Dimensions pp. M4-99–M4-112
					2: Applying the Pythagorean Theorem
<b>8.EE1.2b</b>	Evaluate square roots of perfect squares	Textbook	4: Expanding Number Systems	1: The Real Number System	3: What Are Those?: The Real Numbers pp. M4-31–M4-45
		MATHia Software	4: Expanding Number Systems	1: Rational and Irrational Numbers	1: Introduction to Irrational Numbers
<b>8.EE1.2c</b>	Evaluate cube roots of perfect cubes.	Textbook	4: Expanding Number Systems	1: The Real Number System	3: What Are Those?: The Real Numbers pp. M4-31–M4-45

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
8.EE1.2d	Recognize that square roots of non-perfect squares are irrational.	Textbook	4: Expanding Number Systems	1: The Real Number System	3: What Are Those?: The Real Numbers pp. M4-31–M4-45
		MATHia Software	4: Expanding Number Systems	1: Rational and Irrational Numbers	1: Introduction to Irrational Numbers
				2: The Pythagorean Theorem	2: Applying the Pythagorean Theorem
8.EE1.3a	Express very large and very small quantities in scientific notation in the form $a \times 10^b = p$ where $1 \leq a < 10$ and $b$ is an integer.	Textbook	5: Applying Powers	1: Exponents and Scientific Notation	2: The Big and Small of It: Scientific Notation pp. M5-23–M5-40
		MATHia Software	5: Applying Powers	2: Scientific Notation	1: Using Scientific Notation 2: Comparing Numbers using Scientific Notation
8.EE1.3b	Translate between decimal notation and scientific notation.	Textbook	5: Applying Powers	1: Exponents and Scientific Notation	2: The Big and Small of It: Scientific Notation pp. M5-23–M5-40
		MATHia Software	5: Applying Powers	2: Scientific Notation	1: Using Scientific Notation 2: Comparing Numbers using Scientific Notation
8.EE1.3c	Estimate and compare the relative size of two quantities in scientific notation.	Textbook	5: Applying Powers	1: Exponents and Scientific Notation	3: How Much Larger?: Operations with Scientific Notation pp. M5-41–M5-56
8.EE1.4a	Multiply and divide numbers expressed in both decimal and scientific notation.	Textbook	5: Applying Powers	1: Exponents and Scientific Notation	3: How Much Larger?: Operations with Scientific Notation pp. M5-41–M5-56
8.EE1.4b	Select appropriate units of measure when representing answers in scientific notation.	Textbook	5: Applying Powers	1: Exponents and Scientific Notation	2: The Big and Small of It: Scientific Notation pp. M5-23–M5-40
					3: How Much Larger?: Operations with Scientific Notation pp. M5-41–M5-56
8.EE1.4c	Translate how different technological devices display numbers in scientific notation.	Textbook	5: Applying Powers	1: Exponents and Scientific Notation	2: The Big and Small of It: Scientific Notation pp. M5-23–M5-40
8.EE1.5	Apply concepts of proportional relationships to real-world and mathematical situations.	Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	2: Jack and Jill, Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42
8.EE1.5a	Graph proportional relationships	Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	1: Post-Secondary Proportions: Representations of Proportional Relationships pp. M2-7–M2-22
					2: Jack and Jill, Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
8.EE1.5b	Interpret unit rate as the slope of the graph.	Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	2: Jack and Jill, Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42
		MATHia Software	2: Developing Functional Foundations	1: Representing Proportional Relationships	4: Graphing Linear Relationships
8.EE1.5c	Compare two different proportional relationships given multiple representations, including tables, graphs, equations, diagrams, and verbal descriptions.	Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	1: Post-Secondary Proportions: Representations of Proportional Relationships pp. M2-7–M2-22
					2: Jack and Jill, Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42
8.EE1.6	Apply concepts of slope and $y$ -intercept to graphs, equations, and proportional relationships.	Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	2: Jack and Jill, Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42
8.EE1.6a	Explain why the slope, $m$ , is the same between any two distinct points on a non-vertical line using similar triangles.	Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	2: Jack and Jill, Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42
		MATHia Software	2: Developing Functional Foundations	1: Representing Proportional Relationships	3: Slippery Slopes: Exploring Slopes Using Similar Triangles pp. M2-43–M2-52
8.EE1.6b	Derive the slope-intercept form ( $y = mx + b$ ) for a non-vertical line.	Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	2: Jack and Jill, Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42
		MATHia Software	2: Developing Functional Foundations	1: Representing Proportional Relationships	3: Understanding Slopes of Lines
8.EE1.6c	Relate equations for proportional relationships ( $y = kx$ ) with the slope-intercept form ( $y = mx + b$ ) where $b = 0$ .	Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	2: Jack and Jill, Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42
					4: Up, Down, and All Around: Transformations of Lines pp. M2-53–M2-72

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
8.EE1.7a	Solve linear equations and inequalities with rational number coefficients that include the use of the distributive property, combining like terms, and variables on both sides.	Textbook	3: Modeling Linear Equations	1: Solving Linear Equations	1: Strategic Solving: Equations with Variables on Both Sides pp. M3-7–M3-16
					3: Tic-Tac-Bingo: Creating Linear Equations pp. M3-31–M3-38
		MATHia Software	3: Modeling Linear Equations	1: Solving Linear Equations	1: Exploring Two-Step Equations
					2: Solving Multi-Step Equations
				2: Solving Linear Equations with Similar Terms	1: Solving by Combining Like Variable Terms and a Constant with Integers (No Type In)
					2: Solving by Combining Like Variable Terms and a Constant with Integers (Type In)
					3: Solving by Combining Like Variable Terms and a Constant with Decimals (No Type In)
					4: Solving by Combining Like Variable Terms and a Constant with Decimals (Type In)
				3: Linear Models and the Distributive Property	4: Modeling using the Distributive Property over Division
				4: Linear Equations with Variables on Both Sides	1: Solving with Integers (No Type In)
2: Solving with Integers (Type In)					
3: Solving Equations with One Solution, Infinite, and No Solutions					
4: Sorting Equations by Number of Solutions					
8.EE1.7b	Recognize the three types of solutions to linear equations: one solution ( $x=a$ ), infinitely many solutions ( $a=a$ ), or no solutions ( $a=b$ ).	Textbook	3: Modeling Linear Equations	1: Solving Linear Equations	2: MP3s and DVDs: Analyzing and Solving Linear Equations pp. M3-17–M3-30
					3: Tic-Tac-Bingo: Creating Linear Equations pp. M3-31–M3-38
		MATHia Software	3: Modeling Linear Equations	3: Linear Models and the Distributive Property	5: Solving with the Distributive Property Over Multiplication
					6: Solving with the Distributive Property Over Division
				2: Linear Equations with Variables on Both Sides	3: Solving Equations with One Solution, Infinite, and No Solutions
					4: Sorting Equations by Number of Solutions
8.EE1.7c	Generate linear equations with the three types of solutions.	Textbook	3: Modeling Linear Equations	1: Solving Linear Equations	3: Tic-Tac-Bingo: Creating Linear Equations pp. M3-31–M3-38
8.EE1.7d	Justify why linear equations have a specific type of solution	Textbook	3: Modeling Linear Equations	1: Solving Linear Equations	2: MP3s and DVDs: Analyzing and Solving Linear Equations pp. M3-17–M3-30

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>8.EE1.8</b>	Investigate and solve real-world and mathematical problems involving systems of linear equations in two variables with integer coefficients and solutions.	Textbook	3: Modeling Linear Equations	2: Systems of Linear Equations	3: The County Fair: Using Substitution to Solve Linear Systems pp. M3-75–M3-92
					5: Rockin’ Roller Rink: Choosing a Method to Solve a Linear System pp. M3-107–M3-118
<b>8.EE1.8a</b>	Graph systems of linear equations and estimate their point of intersection.	Textbook	3: Modeling Linear Equations	2: Systems of Linear Equations	3: The County Fair: Using Substitution to Solve Linear Systems pp. M3-75–M3-92
					5: Rockin’ Roller Rink: Choosing a Method to Solve a Linear System pp. M3-107–M3-118
		MATHia Software	3: Modeling Linear Equations	5: Systems of Linear Equations	2: Modeling Linear Systems Involving Integers 3: Modeling Linear Systems Involving Decimals
<b>8.EE1.8b</b>	Understand and verify that a solution to a system of linear equations is represented on a graph as the point of intersection of the two lines.	Textbook	3: Modeling Linear Equations	2: Systems of Linear Equations	1: Crossing Paths: Point of Intersection of Linear Graphs pp. M3-47–M3-60
					2: The Road Less Traveled: Systems of Linear Equations pp. M3-61–M3-74
					3: The County Fair: Using Substitution to Solve Linear Systems pp. M3-75–M3-92
					5: Rockin’ Roller Rink: Choosing a Method to Solve a Linear System pp. M3-107–M3-118
		MATHia Software	3: Modeling Linear Equations	5: Systems of Linear Equations	1: Introduction to Systems of Linear Equations 2: Modeling Linear Systems Involving Integers 3: Modeling Linear Systems Involving Decimals

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>8.EE1.8c</b>	Solve systems of linear equations algebraically, including methods of substitution and elimination, or through inspection.	Textbook	3: Modeling Linear Equations	2: Systems of Linear Equations	3: The County Fair: Using Substitution to Solve Linear Systems pp. M3-75–M3-92
					4: Quite a Combo: Using Linear Combinations to Solve Linear Systems pp. M3-93–M3-106
					5: Rockin' Roller Rink: Choosing a Method to Solve a Linear System pp. M3-107–M3-118
		MATHia Software	3: Modeling Linear Equations	5: Systems of Linear Equations	4: Solving Linear Systems Using Substitution
					5: Solving Linear Systems Using Linear Combinations
					6: Solving Linear Systems Using Any Method
<b>8.EE1.8d</b>	Understand that systems of linear equations can have one solution, no solution, or infinitely many solutions.	Textbook	3: Modeling Linear Equations	2: Systems of Linear Equations	2: The Road Less Traveled: Systems of Linear Equations pp. M3-61–M3-74
					3: The County Fair: Using Substitution to Solve Linear Systems pp. M3-75–M3-92
					5: Rockin' Roller Rink: Choosing a Method to Solve a Linear System pp. M3-107–M3-118
<b>8.F.1a</b>	Understand that a function assigns to each input exactly one output.	Textbook	2: Developing Function Foundations	3: Introduction to Functions	3: Only One X: Defining Functional Relationships pp. M2-205–M2-224
		MATHia Software	2: Developing Functional Foundations	5: Relations and Functions	1: Exploring Functions
					2: Exploring Graphs of Functions
<b>8.F.1b</b>	Relate inputs (x-values or domain) and outputs (y-values or range) to independent and dependent variables.	Textbook	2: Developing Function Foundations	3: Introduction to Functions	4: Through the Woods: Describing Functions pp. M2-225–M2-244
		MATHia Software	2: Developing Functional Foundations	5: Relations and Functions	3: Classifying Relations and Functions



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<b>8.F.1c</b>	Translate among the multiple representations of a function, including mappings, tables, graphs, equations, and verbal descriptions.	Textbook	2: Developing Function Foundations	3: Introduction to Functions	1: Patterns, Sequences, Rules . . . : Analyzing Sequences as Rules pp. M2-179–M2-188
		MATHia Software	2: Developing Functional Foundations	2: Linear Models	5: Comparing Apples to Oranges: Comparing Functions Using Different Representations pp. M2-245–M2-260
				5: Relations and Functions	1: Multiple Representations of Linear Functions
					2: Exploring Graphs of Functions
				3: Classifying Relations and Functions	
<b>8.F.1d</b>	Determine if a relation is a function using multiple representations, including mappings, tables, graphs, equations, and verbal descriptions.	Textbook	2: Developing Function Foundations	3: Introduction to Functions	3: Only One X: Defining Functional Relationships pp. M2-205–M2-224
		MATHia Software	2: Developing Functional Foundations	5: Relations and Functions	3: Classifying Relations and Functions
<b>8.F.1e</b>	Graph a function from a table of values. Understand that the graph and table both represent a set of ordered pairs of that function.	Textbook	2: Developing Function Foundations	2: Linear Relationships	1: U.S. Shirts: Using Tables, Graphs, and Equations pp. M2-81–M2-92
<b>8.F.2</b>	Compare multiple representations of two functions, including mappings, tables, graphs, equations, and verbal descriptions, in order to draw conclusions.	Textbook	2: Developing Function Foundations	3: Introduction to Functions	5: Comparing Apples to Oranges: Comparing Functions Using Different Representations pp. M2-245–M2-260
<b>8.F.3</b>	Investigate the differences between linear and nonlinear functions using multiple representations (i.e., tables, graphs, equations, and verbal descriptions).	Textbook	2: Developing Function Foundations	3: Introduction to Functions	4: Through the Woods: Describing Functions pp. M2-225–M2-244
<b>8.F.3a</b>	Define an equation in slope-intercept form ( $y = mx + b$ ) as being a linear function.	Textbook	2: Developing Function Foundations	3: Introduction to Functions	4: Through the Woods: Describing Functions pp. M2-225–M2-244
		MATHia Software	2: Developing Functional Foundations	1: Representing Proportional Relationships	4: Graphing Linear Relationships
<b>8.F.3b</b>	Recognize that the graph of a linear function has a constant rate of change.	Textbook	2: Developing Function Foundations	2: Linear Relationships	2: At the Arcade: Linear Relationships in Tables pp. M2-93–M2-108
				3: Introduction to Functions	4: Through the Woods: Describing Functions pp. M2-225–M2-244
		MATHia Software	2: Developing Functional Foundations	1: Representing Proportional Relationships	4: Graphing Linear Relationships
<b>8.F.3c</b>	Provide examples of nonlinear functions.	Textbook	2: Developing Function Foundations	3: Introduction to Functions	4: Through the Woods: Describing Functions pp. M2-225–M2-244

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)	
<b>8.F.4</b>	Apply the concepts of linear functions to real-world and mathematical situations.	MATHia Software	2: Developing Functional Foundations	1: Representing Proportional Relationships	1: Representing Proportional Relationships Algebraically	
				5: Relations and Functions	4: identifying Key Characteristics of Graphs of Functions	
<b>8.F.4a</b>	Understand that the slope is the constant rate of change and the y-intercept is the point where $x = 0$ .	Textbook	2: Developing Function Foundations	2: Linear Relationships	2: At the Arcade: Linear Relationships in Tables pp. M2-93–M2-108	
					3: Dining, Dancing, and Driving: Linear Relationships in Contexts pp. M2-109–M2-118	
		MATHia Software	2: Developing Functional Foundations	2: Linear Models	2: Modeling Linear Functions Using Multiple Representations	
					3: Calculating Slopes	
				3: Writing Equations of a Line	2: Writing Equations Given Slope and a Point	
					3: Writing Equations Given Two Points	
					4: Modeling Linear Equations Given an Initial Point	
				4: Graphs of Linear Equations in Two Variables	5: Modeling Linear Relationships Given Two Points	
					2: Graphing Given an Integer Slope and y-intercept	
					3: Graphing Given a Decimal Slope and y-intercept	
					4: Modeling Linear Equations in Standard Form	
				3: Modeling Linear Equations	3: Linear Models and the Distributive Property	5: Graphing Linear Equations using a Given Method
						6: Graphing Linear Equations using a Chosen Method
2: Modeling Integer Rates of Change						
				3: Modeling Fractional Rates of Change		
				4: Modeling using the Distributive Property over Division		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>8.F.4b</b>	Determine the slope and the y-intercept of a linear function given multiple representations, including two points, tables, graphs, equations, and verbal descriptions.	Textbook	2: Developing Function Foundations	2: Linear Relationships	2: At the Arcade: Linear Relationships in Tables pp. M2-93–M2-108
					3: Dining, Dancing and Driving: Linear Relationships in Contexts pp. M2-109–M2-118
					4: Derby Day: Slope-Intercept Form of a Line pp. M2-119–M2-134
					5: What's the Point?: Point-Slope Form of a Line pp. M2-135–M2-150
					6: The Arts Are Alive: Using Linear Equations pp. M2-151–M2-167
		MATHia Software	2: Developing Functional Foundations	2: Linear Models	2: Modeling Linear Functions Using Multiple Representations
					3: Calculating Slopes
				3: Writing Equations of a Line	1: Connecting Slope-Intercept and Point-Slope Form
					2: Writing Equations Given Slope and a Point
					3: Writing Equations Given Two Points
					4: Modeling Linear Equations Given an Initial Point
					5: Modeling Linear Relationships Given Two Points
				4: Graphs of Linear Equations in Two Variables	2: Graphing Given an Integer Slope and y-intercept
					3: Graphing Given a Decimal Slope and y-intercept
5: Graphing Linear Equations using a Given Method					
6: Graphing Linear Equations using a Chosen Method					

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8.F.4c	Construct a function in slope-intercept form that models a linear relationship between two quantities.	Textbook	2: Developing Function Foundations	2: Linear Relationships	4: Derby Day: Slope-Intercept Form of a Line pp. M2-119–M2-134
				3: Introduction to Functions	4: Through the Woods: Describing Functions pp. M2-225–M2-244
		MATHia Software	2: Developing Functional Foundations	1: Representing Proportional Relationships	2: Modeling the Constant of Proportionality
				2: Linear Models	2: Modeling Linear Functions Using Multiple Representations
				3: Writing Equations of a Line	2: Writing Equations Given Slope and a Point
					3: Writing Equations Given Two Points
					4: Modeling Linear Equations Given an Initial Point
				4: Graphs of Linear Equations in Two Variables	5: Modeling Linear Relationships Given Two Points
2: Graphing Given an Integer Slope and y-intercept					
3: Graphing Given a Decimal Slope and y-intercept					
8.F.4d	Interpret the meaning of the slope and the y-intercept of a linear function in the context of the situation	Textbook	2: Developing Function Foundations	2: Linear Relationships	2: At the Arcade: Linear Relationships in Tables pp. M2-93–M2-108
					4: Derby Day: Slope-Intercept Form of a Line pp. M2-119–M2-134
					5: What's the Point?: Point-Slope Form of a Line pp. M2-135–M2-150
		MATHia Software	2: Developing Functional Foundations	2: Linear Models	2: Modeling Linear Functions Using Multiple Representations
				3: Writing Equations of a Line	2: Writing Equations Given Slope and a Point
					3: Writing Equations Given Two Points
					4: Modeling Linear Equations Given an Initial Point
					5: Modeling Linear Relationships Given Two Points
				4: Graphs of Linear Equations in Two Variables	1: Analyzing Models of Linear Relationships
					2: Graphing Given an Integer Slope and y-intercept
					3: Graphing Given a Decimal Slope and y-intercept
				3: Modeling Linear Equations	3: Linear Models and the Distributive Property

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
8.F.4e	Explore the relationship between linear functions and arithmetic sequences	Textbook	2: Developing Function Foundations	3: Introduction to Functions	3: Only One X: Defining Functional Relationships pp. M2-205–M2-224
					4: Through the Woods: Describing Functions pp. M2-225–M2-244
8.F.5	Apply the concepts of linear and nonlinear functions to graphs in real-world and mathematical situations.	Textbook	2: Developing Function Foundations	3: Introduction to Functions	2: Once Upon a Graph: Analyzing the Characteristics of Graphs of Relationships pp. M2-189–M2-204
8.F.5a	Analyze and describe attributes of graphs of functions (e.g., constant, increasing/decreasing, linear/nonlinear, maximum/minimum, discrete/continuous).	Textbook	2: Developing Function Foundations	3: Introduction to Functions	2: Once Upon a Graph: Analyzing the Characteristics of Graphs of Relationships pp. M2-189–M2-204
					4: Through the Woods: Describing Functions pp. M2-225–M2-244
8.F.5b	Sketch the graph of a function from a verbal description	Textbook	2: Developing Function Foundations	3: Introduction to Functions	2: Once Upon a Graph: Analyzing the Characteristics of Graphs of Relationships pp. M2-189–M2-204
					4: Through the Woods: Describing Functions pp. M2-225–M2-244
8.F.5c	Write a verbal description from the graph of a function with and without scales.	Textbook	2: Developing Function Foundations	3: Introduction to Functions	2: Once Upon a Graph: Analyzing the Characteristics of Graphs of Relationships pp. M2-189–M2-204
8.GM.1	Investigate the properties of rigid transformations (rotations, reflections, translations) using a variety of tools (e.g., grid paper, reflective devices, graphing paper, technology).	MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	1: Experimenting with Rigid Motions
8.GM.1a	Verify that lines are mapped to lines, including parallel lines.	Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	4: Up, Down, and All Around: Transformations of Lines pp. M2-53–M2-72
		MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	1: Experimenting with Rigid Motions
8.GM.1b	Verify that corresponding angles are congruent.	Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	1: Patty Paper, Patty Paper: Introduction to Congruent Figures pp. M1-7–M1-16
		MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	2: Slides, Flips, and Spins: Introduction to Rigid Motions pp. M1-17–M1-38
					1: Experimenting with Rigid Motions

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
8.GM.1c	Verify that corresponding line segments are congruent	Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	1: Patty Paper, Patty Paper: Introduction to Congruent Figures pp. M1-7–M1-16 2: Slides, Flips, and Spins: Introduction to Rigid Motions pp. M1-17–M1-38
		MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	1: Experimenting with Rigid Motions
8.GM.2	Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.	Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	6: Every Which Way: Combining Rigid Motions pp. M1-83–M1-97
		MATHia Software	1: Transforming Geometric Objects	2: Similar Figures on the Coordinate Plane	3: Performing One Transformation 4: Performing Multiple Transformations
8.GM.2a	Rotate geometric figures 90, 180, and 270 degrees, both clockwise and counterclockwise, about the origin.	Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	5: Half Turns and Quarter Turns: Rotations of Figures on the Coordinate Plane pp. M1-67–M1-82 6: Every Which Way: Combining Rigid Motions pp. M1-83–M1-97
		MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	4: Rotating Plane Figures
				2: Similar Figures on the Coordinate Plane	3: Performing One Transformation
					4: Performing Multiple Transformations
8.GM.2b	Reflect geometric figures with respect to the x-axis and/or y-axis.	Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	4: Mirror, Mirror: Reflections of Figures on the Coordinate Plane pp. M1-53–M1-66 6: Every Which Way: Combining Rigid Motions pp. M1-83–M1-97
		MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	3: Reflecting Plane Figures
				2: Similar Figures on the Coordinate Plane	3: Performing One Transformation
					4: Performing Multiple Transformations

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>8.GM.2c</b>	Translate geometric figures vertically and/or horizontally.	Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	1: Patty Paper, Patty Paper: Introduction to Congruent Figures pp. M1-7–M1-16
					2: Slides, Flips, and Spins: Introduction to Rigid Motions pp. M1-17–M1-38
					3: Lateral Moves: Translations of Figures on the Coordinate Plane pp. M1-39–M1-52
					6: Every Which Way: Combining Rigid Motions pp. M1-83–M1-97
		MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	2: Translating Plane Figures
					2: Similar Figures on the Coordinate Plane
<b>8.GM.2d</b>	Recognize that two-dimensional figures are only congruent if a series of rigid transformations can be performed to map the pre-image to the image.	Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	1: Patty Paper, Patty Paper: Introduction to Congruent Figures pp. M1-7–M1-16
					2: Slides, Flips, and Spins: Introduction to Rigid Motions pp. M1-17–M1-38
					3: Lateral Moves: Translations of Figures on the Coordinate Plane pp. M1-39–M1-52
					4: Mirror, Mirror: Reflections of Figures on the Coordinate Plane pp. M1-53–M1-66
					5: Half Turns and Quarter Turns: Rotations of Figures on the Coordinate Plane pp. M1-67–M1-82
					6: Every Which Way: Combining Rigid Motions pp. M1-83–M1-97
		MATHia Software	1: Transforming Geometric Objects	2: Similar Figures on the Coordinate Plane	3: Performing One Transformation 4: Performing Multiple Transformations

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)	
<b>8.GM.2e</b>	Given two congruent figures, describe the series of rigid transformations that justifies this congruence.	Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	1: Patty Paper, Patty Paper: Introduction to Congruent Figures pp. M1-7–M1-16	
					2: Slides, Flips, and Spins: Introduction to Rigid Motions pp. M1-17–M1-38	
					3: Lateral Moves: Translations of Figures on the Coordinate Plane pp. M1-39–M1-52	
					4: Mirror, Mirror: Reflections of Figures on the Coordinate Plane pp. M1-53–M1-66	
					5: Half Turns and Quarter Turns: Rotations of Figures on the Coordinate Plane pp. M1-67–M1-82	
					6: Every Which Way: Combining Rigid Motions pp. M1-83–M1-97	
		MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	2: Translating Plane Figures	
					3: Reflecting Plane Figures	
				2: Similar Figures on the Coordinate Plane	4: Rotating Plane Figures	
					2: Dilating Plane Figures	
3: Performing One Transformation						
4: Performing Multiple Transformations						
<b>8.GM.3a</b>	Use coordinate geometry to describe the effect of transformations on two-dimensional figures.	Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	3: Lateral Moves: Translations of Figures on the Coordinate Plane pp. M1-39–M1-52	
					4: Mirror, Mirror: Reflections of Figures on the Coordinate Plane pp. M1-53–M1-66	
					5: Half Turns and Quarter Turns: Rotations of Figures on the Coordinate Plane pp. M1-67–M1-82	
					6: Every Which Way: Combining Rigid Motions pp. M1-83–M1-97	
					2: Similarity	2: Rising, Running, Stepping, Scaling: Dilating Figures on the Coordinate Plane pp. M1-127–M1-142
						5: Describing Rigid Motions Using Coordinates
		MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	5: Describing Transformations Using Coordinates	
					2: Similar Figures on the Coordinate Plane	



Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>8.GM.3b</b>	Relate scale drawings to dilations of geometric figures.	Textbook	1: Transforming Geometric Objects	2: Similarity	1: Zoomable Geometry: Dilations of Figures pp. M1-109–M1-126
<b>8.GM.4</b>	Apply the properties of transformations (rotations, reflections, translations, dilations).	Textbook	1: Transforming Geometric Objects	2: Similarity	1: Zoomable Geometry: Dilations of Figures pp. M1-109–M1-126
<b>8.GM.4a</b>	Dilate geometric figures using scale factors that are positive rational numbers	Textbook	1: Transforming Geometric Objects	2: Similarity	1: Zoomable Geometry: Dilations of Figures pp. M1-109–M1-126
					2: Rising, Running, Stepping, Scaling: Dilating Figures on the Coordinate Plane pp. M1-127–M1-142
					3: From Here to There: Mapping Similar Figures Using Transformations pp. M1-143–M1-159
		MATHia Software	1: Transforming Geometric Objects	2: Similar Figures on the Coordinate Plane	2: Dilating Plane Figures
					3: Performing One Transformation
					4: Performing Multiple Transformations
<b>8.GM.4b</b>	Dilate geometric figures using scale factors that are positive rational numbers	Textbook	1: Transforming Geometric Objects	2: Similarity	1: Zoomable Geometry: Dilations of Figures pp. M1-109–M1-126
					3: From Here to There: Mapping Similar Figures Using Transformations pp. M1-143–M1-159
		MATHia Software	1: Transforming Geometric Objects	2: Similar Figures on the Coordinate Plane	1: Defining Similarity
					2: Dilating Plane Figures
			3: Performing One Transformation		
			4: Performing Multiple Transformations		
<b>8.GM.4c</b>	Dilate geometric figures using scale factors that are positive rational numbers	Textbook	1: Transforming Geometric Objects	2: Similarity	1: Zoomable Geometry: Dilations of Figures pp. M1-109–M1-126
					3: From Here to There: Mapping Similar Figures Using Transformations pp. M1-143–M1-159
		MATHia Software	1: Transforming Geometric Objects	2: Similar Figures on the Coordinate Plane	2: Dilating Plane Figures
					3: Performing One Transformation
			4: Performing Multiple Transformations		
<b>8.GM.4.d</b>	Use proportional reasoning to find the missing side lengths of two similar figures.	Textbook	1: Transforming Geometric Objects	2: Similarity	1: Zoomable Geometry: Dilations of Figures pp. M1-109–M1-126

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>8.GM.5a</b>	Discover that the sum of the three angles in a triangle is 180 degrees.	Textbook	1: Transforming Geometric Objects	3: Line and Angle Relationships	1: Pulling a One-Eighty!: Triangle Sum and Exterior Angle Theorems pp. M1-169–M1-182
		MATHia Software	1: Transforming Geometric Objects	3: Angles and Triangles	1: Introduction to Triangle Sum and Exterior Angle Theorems
<b>8.GM.5b</b>	Discover and use the relationship between interior and exterior angles of a triangle.	Textbook	1: Transforming Geometric Objects	3: Line and Angle Relationships	1: Pulling a One-Eighty!: Triangle Sum and Exterior Angle Theorems pp. M1-169–M1-182
		MATHia Software	1: Transforming Geometric Objects	3: Angles and Triangles	1: Introduction to Triangle Sum and Exterior Angle Theorems
<b>8.GM.5c</b>	Identify congruent and supplementary pairs of angles when two parallel lines are cut by a transversal.	Textbook	1: Transforming Geometric Objects	3: Line and Angle Relationships	2: Crisscross Applesauce: The Angle-Angle Similarity Theorem pp. M1-183–M1-204
		MATHia Software	1: Transforming Geometric Objects	4: Lines Cut by a Transversal	1: Classifying Angles Formed by Transversals
					2: Reasoning About Angles Formed by Transversals
3: Calculating Angle Measures Formed by Transversals					
<b>8.GM.5d</b>	Recognize that two similar figures have congruent corresponding angles.	Textbook	1: Transforming Geometric Objects	3: Line and Angle Relationships	3: The Vanishing Point: The Angle-Angle Similarity Theorem pp. M1-205–M1-214
		MATHia Software	1: Transforming Geometric Objects	5: Angle-Angle Similarity	1: Introduction to the Angle-Angle Similarity Theorem
<b>8.GM.6</b>	Use models to demonstrate a proof of the Pythagorean Theorem and its converse.	Textbook	4: Expanding Number Systems	2: The Pythagorean Theorem	1: The Right Triangle Connection: The Pythagorean Theorem pp. M4-55–M4-74
		MATHia Software	4: Expanding Number Systems	2: The Pythagorean Theorem	2: Can That Be Right?: The Converse of the Pythagorean Theorem pp. M4-75–M4-86
					1: Exploring the Pythagorean Theorem

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>8.GM.7</b>	Apply the Pythagorean Theorem to model and solve real-world and mathematical problems in two and three dimensions involving right triangles.	Textbook	4: Expanding Number Systems	2: The Pythagorean Theorem	1: The Right Triangle Connection: The Pythagorean Theorem pp. M4-55–M4-74
					2: Can That Be Right?: The Converse of the Pythagorean Theorem pp. M4-75–M4-86
		MATHia Software	4: Expanding Number Systems	2: The Pythagorean Theorem	4: Catty Corner: Side Lengths in Two- and Three-Dimensions pp. M4-99–M4-112
					2: Applying the Pythagorean Theorem
<b>8.GM.8</b>	Find the distance between any two points in the coordinate plane using the Pythagorean Theorem.	Textbook	4: Expanding Number Systems	2: The Pythagorean Theorem	3: Pythagoras Meets Descartes: Distances in a Coordinate System pp. M4-87–M4-98
					MATHia Software
<b>8.GM.9</b>	Solve real-world and mathematical problems involving volumes of cones, cylinders, and spheres and the surface area of cylinders.	Textbook	5: Applying Powers	2: Volume of Curved Figures	1: Can I Have a Drum Roll, Please!: Volume of a Cylinder pp. M5-65–M5-78
					2: Cone of Silence: Volume of a Cone pp. M5-79–M5-92
					3: Pulled in All Directions: Volume of a Sphere pp. M5-93–M5-102
					4: Silos, Frozen Yogurt, and Popcorn: Volume Problems with Cylinders, Cones, and Spheres pp. M5-103–M5-112
		MATHia Software	5: Applying Powers	3: Volume	1: Relating Volumes of Cylinders, Cones, and Spheres
					2: Calculating Volume of Cylinders
					3: Using Volume of Cylinders
					4: Calculating Volume of Cones
					5: Using Volume of Cones
					6: Calculating Volume of Spheres
7: Using Volume of Spheres					
<b>8.DSP.1</b>	Investigate bivariate data.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	1: Pass the Squeeze: Analyzing Patterns in Scatter Plots pp. M2-271–M2-292

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>8.DSP.1a</b>	Collect bivariate data	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	1: Pass the Squeeze: Analyzing Patterns in Scatter Plots pp. M2-271–M2-292
<b>8.DSP.1b</b>	Graph the bivariate data on a scatter plot	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	1: Pass the Squeeze: Analyzing Patterns in Scatter Plots pp. M2-271–M2-292
<b>8.DSP.1c</b>	Describe patterns observed on a scatter plot, including clustering, outliers, and association (positive, negative, no correlation, linear, nonlinear).	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	1: Pass the Squeeze: Analyzing Patterns in Scatter Plots pp. M2-271–M2-292
		MATHia Software	2: Developing Functional Foundations	6: Lines of Best Fit	1: Introduction to Scatter Plots 2: Estimating Lines of Best Fit
<b>8.DSP.2</b>	Draw an approximate line of best fit on a scatter plot that appears to have a linear association and informally assess the fit of the line to the data points.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	2: Where Do You Buy Your Books?: Drawing Lines of Best Fit pp. M2-293–M2-308 3: Mia Is Growing Like a Weed: Analyzing Lines of Best Fit pp. M2-309–M2-322
		MATHia Software	2: Developing Functional Foundations	1: Lines of Best Fit	2: Estimating Lines of Best Fit 3: Using Lines of Best Fit
<b>8.DSP.3</b>	Apply concepts of an approximate line of best fit in real-world situations.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	2: Where Do You Buy Your Books?: Drawing Lines of Best Fit pp. M2-293–M2-308 3: Mia Is Growing Like a Weed: Analyzing Lines of Best Fit pp. M2-309–M2-322 4: The Stroop Test: Comparing Slopes and Intercepts of Data from Experiments pp. M2-323–M2-332
		MATHia Software	2: Developing Functional Foundations	1: Lines of Best Fit	3: Using Lines of Best Fit
<b>8.DSP.3a</b>	Find an approximate equation for the line of best fit using two appropriate data points.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	2: Where Do You Buy Your Books?: Drawing Lines of Best Fit pp. M2-293–M2-308 3: Mia Is Growing Like a Weed: Analyzing Lines of Best Fit pp. M2-309–M2-322 4: The Stroop Test: Comparing Slopes and Intercepts of Data from Experiments pp. M2-323–M2-332
		MATHia Software	2: Developing Functional Foundations	1: Lines of Best Fit	3: Using Lines of Best Fit

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
8.DSP.3b	Interpret the slope and intercept.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	2: Where Do You Buy Your Books?: Drawing Lines of Best Fit pp. M2-293–M2-308 3: Mia Is Growing Like a Weed: Analyzing Lines of Best Fit pp. M2-309–M2-322 4: The Stroop Test: Comparing Slopes and Intercepts of Data from Experiments pp. M2-323–M2-332
		MATHia Software	2: Developing Functional Foundations	1: Lines of Best Fit	3: Using Lines of Best Fit
8.DSP.3c	Solve problems using the equation.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	2: Where Do You Buy Your Books?: Drawing Lines of Best Fit pp. M2-293–M2-308 3: Mia Is Growing Like a Weed: Analyzing Lines of Best Fit pp. M2-309–M2-322 4: The Stroop Test: Comparing Slopes and Intercepts of Data from Experiments pp. M2-323–M2-332
		MATHia Software	2: Developing Functional Foundations	1: Lines of Best Fit	3: Using Lines of Best Fit
8.DSP.4	Investigate bivariate categorical data in two-way tables.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	5: Would You Rather ...?: Patterns of Association in Two-Way Tables pp. M2-333–M2-350
8.DSP.4a	Organize bivariate categorical data in a two-way table.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	5: Would You Rather ...?: Patterns of Association in Two-Way Tables pp. M2-333–M2-350
		MATHia Software	2: Developing Functional Foundations	7: Categorical Data	1: Building Marginal Frequency Distributions 3: Building Marginal Relative Frequency Distributions
8.DSP.4b	Interpret data in two-way tables using relative frequencies.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	5: Would You Rather ...?: Patterns of Association in Two-Way Tables pp. M2-333–M2-350
		MATHia Software	2: Developing Functional Foundations	7: Categorical Data	3: Building Marginal Relative Frequency Distributions 4: Analyzing Marginal Relative Frequency Distributions

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit( MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>8.DSP.4c</b>	Explore patterns of possible association between the two categorical variables.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	5: Would You Rather ...?: Patterns of Association in Two-Way Tables pp. M2-333–M2-350
		MATHia Software	2: Developing Functional Foundations	7: Categorical Data	2: Analyzing Marginal Frequency Distributions 4: Analyzing Marginal Relative Frequency Distributions
<b>8.DSP.5</b>	Organize data in matrices with rational numbers and apply to real-world and mathematical situations.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	6: In the Matrix: Introduction to Matrices and Matrix Operations pp. M2-351–M2-366
<b>8.DSP.5a</b>	Understand that a matrix is a way to organize data.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	6: In the Matrix: Introduction to Matrices and Matrix Operations pp. M2-351–M2-366
<b>8.DSP.5b</b>	Recognize that a $m \times n$ matrix has $m$ rows and $n$ columns.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	6: In the Matrix: Introduction to Matrices and Matrix Operations pp. M2-351–M2-366
<b>8.DSP.5c</b>	Add and subtract matrices of the same size.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	6: In the Matrix: Introduction to Matrices and Matrix Operations pp. M2-351–M2-366
<b>8.DSP.5d</b>	Multiply a matrix by a scalar.	Textbook	2: Developing Function Foundations	4: Patterns in Bivariate Data	6: In the Matrix: Introduction to Matrices and Matrix Operations pp. M2-351–M2-366