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Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
N-Q.1	Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.*	Integrated Math I Textbook	1: Searching for Patterns	1: Quantities and Relationships	1: A Picture Is Worth a Thousand Words: Understanding Quantities and Their Relationships pp. M1-7–M1-20
			2: Exploring Constant Change	1: Linear Functions	2: Fun with Functions, Linear Ones: Making Sense of Different Representations of a Linear Function pp. M2-23–M2-40
					5: Making a Connection: Comparing Linear Functions in Different Forms pp. M2-73–M2-83
2: Solving Linear Equations and Inequalities	2: It's Literally About Literal Equations: Literal Equations pp. M2-109–M2-120				
N-Q.2	Define appropriate quantities for the purpose of descriptive modeling.*	Integrated Math I Textbook	1: Searching for Patterns	1: Quantities and Relationships	1: A Picture Is Worth a Thousand Words: Understanding Quantities and Their Relationships pp. M1-7–M1-20
			3: Investigating Growth and Decay	2: Using Exponential Equations	3: Tea and Carbon Dioxide: Modeling Using Exponential Functions pp. M3-87–M3-96
					4: BAC is BAD News: Choosing a Function to Model BAC pp. M3-97–M3-106
		Integrated Math I MATHia Software	1: Searching for Patterns	1: Function Overview	1: Identifying Quantities
			2: Exploring Constant Change	3: Modeling with Linear Functions	1: Multiple Representations of Linear Functions

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>N-Q.3</b>	Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.*	Integrated Math I Textbook	1: Searching for Patterns	3: Linear Regressions	1: Like a Glove: Least Squares Regressions pp. M1-163–M1-176 2: Gotta Keep It Correlatin': Correlation pp. M1-177–M1-191 4: To Fit or Not To Fit? That Is The Question!: Using Residual Plots pp. M1-207–M1-218
			2: Exploring Constant Change	2: Solving Linear Equations and Inequalities	3: Not All Statements Are Made Equal: Modeling Linear Inequalities pp. M2-121–M2-134 4: Don't Confound Your Compounds: Solving and Graphing Compound Inequalities pp. M2-135–M2-148
			3: Investigating Growth and Decay	2: Using Exponential Equations	1: Downtown and Uptown: Exponential Equations for Growth and Decay pp. M3-67–M3-76
<b>A-SSE.1a</b>	Interpret parts of an expression, such as terms, factors, and coefficients.*	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	2: Fun with Functions, Linear Ones: Making Sense of Different Representations of a Linear Function pp. M2-23–M2-40
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	1: Constant Ratios: Geometric Sequences and Exponential Functions pp. M3-7–M3-22
		Integrated Math I MATHia Software	1: Searching for Patterns	1: Function Overview	4: Identifying Parts of Complex Algebraic Expressions
<b>A-SSE.1b</b>	Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret $P(1 + r)^n$ as the product of $P$ and a factor not depending on $P$ .*	Integrated Math I Textbook	3: Investigating Growth and Decay	2: Using Exponential Equations	1: Downtown and Uptown: Exponential Equations for Growth and Decay pp. M3-67–M3-76

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>A-CED.1</b>	Create equations and inequalities in one variable including ones with absolute value and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions. CA *	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	2: Fun with Functions, Linear Ones: Making Sense of Different Representations of a Linear Function pp. M2-23–M2-40
				2: Solving Linear Equations and Inequalities	1: Strike a Balance: Solving Linear Equations pp. M2-97–M2-108
			3: Not All Statements Are Made Equal: Modeling Linear Inequalities pp. M2-121–M2-134		
			4: Don't Confound Your Compounds: Solving and Graphing Compound Inequalities pp. M2-135–M2-148		
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	2: To the What?: Comparing Exponential Functions pp. M3-23–M3-34
				2: Using Exponential Equations	1: Downtown and Uptown: Exponential Equations for Growth and Decay pp. M3-67–M3-76
		2: The Horizontal Line and Powers: Interpreting Parameters in Context pp. M3-77–M3-86			
		Integrated Math II Textbook	3: Exploring Functions	1: Functions Derived From Linear Relationships	2: Play Ball!: Absolute Value Equations and Inequalities pp. M3-25–M3-38
		Integrated Math I MATHia Software	2: Exploring Constant Change	3: Modeling with Linear Functions	2: Modeling Linear Functions Using Multiple Representations
3: Investigating Growth and Decay	2: Rational Exponents		4: Solving Contextual Exponential Equations Using Common Bases		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>A-CED.2</b>	Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.*	Integrated Math I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-157–M2-172
					2: The Elimination Round: Using Linear Combinations to Solve a System of Linear Equations pp. M2-173–M2-186
					3: Throwing Shade: Graphing Inequalities in Two Variables pp. M2-187–M2-202
			3: Investigating Growth and Decay	2: Using Exponential Equations	1: Downtown and Uptown: Exponential Equations for Growth and Decay pp. M3-67–M3-76
		2: The Horizontal Line and Powers: Interpreting Parameters in Context pp. M3-77–M3-86			
		Integrated Math I MATHia	3: Investigating Growth and Decay	4: Compare Linear and Exponential Models	4: Modeling Equations with a Starting Point of 1
5: Modeling Equations with a Starting Point Other Than 1					
<b>A-CED.3</b>	Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context. For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.*	Integrated Math I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	2: Solving Linear Equations and Inequalities
					3: Not All Statements Are Made Equal: Modeling Linear Inequalities pp. M2-121–M2-134
					3: Throwing Shade: Graphing Inequalities in Two Variables pp. M2-187–M2-202
					4: Working with Constraints: Systems of Linear Inequalities pp. M2-203–M2-216
					5: Working the System: Solving Systems of Equations and Inequalities pp. M2-217–M2-226
6: Take It to the Max...or Min: Linear Programming pp. M2-227–M2-236					
<b>A-CED.4</b>	Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's law $V = IR$ to highlight resistance $R$ .	Integrated Math I Textbook	2: Exploring Constant Change	2: Solving Linear Equations and Inequalities	2: It's Literally About Literal Equations: Literal Equations pp. M2-109–M2-120
					Integrated Math I
		2: Solving Literal Equations			

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>A-REI.1</b>	Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.	Integrated Math I Textbook	2: Exploring Constant Change	2: Solving Linear Equations and Inequalities	1: Strike a Balance: Solving Linear Equations pp. M2-97–M2-108
<b>A-REI.3</b>	Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters. [Linear inequalities; literal equations that are linear in the variables being solved for; exponential of a form, such as $2x = 1/16$ .]	Integrated Math I Textbook	2: Exploring Constant Change	2: Solving Linear Equations and Inequalities	1: Strike a Balance: Solving Linear Equations pp. M2-97–M2-108 3: Not All Statements Are Made Equal: Modeling Linear Inequalities pp. M2-121–M2-134 4: Don't Confound Your Compounds: Solving and Graphing Compound Inequalities pp. M2-135–M2-148
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	2: To the What?: Comparing Exponential Functions pp. M3-23–M3-34
		Integrated Math I MATHia	2: Exploring Constant Change	6: Linear Inequalities	1: Graphing Inequalities 2: Solving Two-Step Linear Inequalities 3: Representing Compound Inequalities
<b>A-REI.3.1</b>	Solve one-variable equations and inequalities involving absolute value, graphing the solutions and interpreting them in context. CA	Integrated Math II Textbook	3: Exploring Functions	1: Functions Derived From Linear Relationships	2: Play Ball!: Absolute Value Equations and Inequalities pp. M3-25–M3-38
<b>A-REI.5</b>	Prove that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions.	Integrated Math I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	2: The Elimination Round: Using Linear Combinations to Solve a System of Linear Equations pp. M2-173–M2-186
		Integrated Math I MATHia Software	2: Exploring Constant Change	7: Systems of Linear Equations	2: Solving Linear Systems Using Linear Combinations

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>A-REI.6</b>	Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.	Integrated Math I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-157–M2-172
					2: The Elimination Round: Using Linear Combinations to Solve a System of Linear Equations pp. M2-173–M2-186
					5: Working the System: Solving Systems of Equations and Inequalities pp. M2-217–M2-226
		Integrated Math I	2: Exploring Constant Change	7: Systems of Linear Equations	1: Representing Systems of Linear Functions 3: Solving Linear Systems Using Any Method
<b>A-REI.10</b>	Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve (which could be a line).	Integrated Math I Textbook	1: Searching for Patterns	1: Quantities and Relationships	1: A Picture Is Worth a Thousand Words: Understanding Quantities and Their Relationships pp. M1-7–M1-20
			2: Exploring Constant Change	1: Linear Functions	2: Fun with Functions, Linear Ones: Making Sense of Different Representations of a Linear Function pp. M2-23–M2-40
				3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-157–M2-172
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	1: Constant Ratios: Geometric Sequences and Exponential Functions pp. M3-7–M3-22
				2: Using Exponential Equations	2: The Horizontal Line and Powers: Interpreting Parameters in Context pp. M3-77–M3-86
			Integrated Math I MATHia Software	2: Exploring Constant Change	2: Graphs of Linear Functions
		3: Investigating Growth and Decay	4: Compare Linear and Exponential Models	4: Modeling Equations with a Starting Point of 1 5: Modeling Equations with a Starting Point Other Than 1	

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
A-REI.11	Explain why the $x$ -coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$ ; find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where $f(x)$ and/or $g(x)$ are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.*	Integrated Math I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-157–M2-172
			3: Investigating Growth and Decay	2: Using Exponential Equations	6: Take It to the Max...or Min: Linear Programming pp. M2-227–M2-236
		Integrated Math I MATHia Software	2: Exploring Constant Change	7: Systems of Linear Equations	2: The Horizontal Line and Powers: Interpreting Parameters in Context pp. M3-77–M3-86
			3: Investigating Growth and Decay	5: Solving Exponential Equations	1: Representing Systems of Linear Functions
A-REI.12	Graph the solutions to a linear inequality in two variables as a halfplane (excluding the boundary in the case of a strict inequality), and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes.	Integrated Math I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	3: Throwing Shade: Graphing Inequalities in Two Variables pp. M2-187–M2-202
					4: Working with Constraints: Systems of Linear Inequalities pp. M2-203–M2-216
					5: Working the System: Solving Systems of Equations and Inequalities pp. M2-217–M2-226
					6: Take It to the Max...or Min: Linear Programming pp. M2-227–M2-236
		Integrated Math I MATHia	2: Exploring Constant Change	8: Linear Inequalities in Two Variables	1: Exploring Linear Inequalities
				2: Graphing Linear Inequalities in Two Variables	
				3: Systems of Linear Inequalities	



Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
F-IF.1	Understand that a function from one set (called the domain) to another set (called the range) assigns to each element of the domain exactly one element of the range. If $f$ is a function and $x$ is an element of its domain, then $f(x)$ denotes the output of $f$ corresponding to the input $x$ . The graph of $f$ is the graph of the equation $y = f(x)$ .	Integrated Math I Textbook	1: Searching for Patterns	1: Quantities and Relationships	1: A Picture Is Worth a Thousand Words: Understanding Quantities and Their Relationships pp. M1-7–M1-20
					3: G of X: Recognizing Functions and Function Families pp. M1-39–M1-60
		Integrated Math I MATHia Software	2: Exploring Constant Change	1: Linear Functions	1: Connecting the Dots: Making Connections Between Arithmetic Sequences and Linear Functions pp. M2-7–M2-22
			1: Searching for Patterns	1: Function Overview	2: Introduction to Function Families
			2: Exploring Constant Change	1: Linear Function Overview	1: Writing Sequences as Linear Functions
				2: Graphs of Linear Functions	2: Understanding Linear Functions
		1: Exploring Graphs of Linear Functions			
		2: Identifying Key Characteristics of Graphs of Functions			
F-IF.2	Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context.	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	2: Fun with Functions, Linear Ones: Making Sense of Different Representations of a Linear Function pp. M2-23–M2-40
				3: Systems of Equations and Inequalities	6: Take It to the Max...or Min: Linear Programming pp. M2-227–M2-236
		Integrated Math I MATHia Software	1: Searching for Patterns	1: Function Overview	3: Evaluating Linear Functions
F-IF.3	Recognize that sequences are functions, sometimes defined recursively, whose domain is a subset of the integers.	Integrated Math I Textbook	1: Searching for Patterns	2: Sequences	1: Is There a Pattern Here?: Recognizing Patterns and Sequences pp. M1-83–M1-98
			2: Exploring Constant Change	1: Linear Functions	1: Connecting the Dots: Making Connections Between Arithmetic Sequences and Linear Functions pp. M2-7–M2-22
		Integrated Math I MATHia Software	1: Searching for Patterns	2: Sequences	1: Describing Patterns in Sequences
			3: Investigating Growth and Decay	1: Exponential Functions	2: Recursive Formulas
				1: Writing Sequences as Exponential Functions	

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>F-IF.4</b>	For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.*	Integrated Math I Textbook	1: Searching for Patterns	1: Quantities and Relationships	1: A Picture Is Worth a Thousand Words: Understanding Quantities and Their Relationships pp. M1-7–M1-20
					2: A Sort of Sorts: Analyzing and Sorting Graphs pp. M1-21–M1-38
					3: G of X: Recognizing Functions and Function Families pp. M1-39–M1-60
		Integrated Math I MATHia Software	3: Investigating Growth and Decay	1: Exponential Functions	4: Function Families for 800, Alex: Recognizing Functions by Characteristics pp. M1-61–M1-72
					2: Fun with Functions, Linear Ones: Making Sense of Different Representations of a Linear Function pp. M2-23–M2-40
					3: Move It!: Transforming Linear Functions pp. M2-41–M2-59
3: My A, B, C, Ds: Transformations of Exponential Functions pp. M3-35–M3-57					
<b>F-IF.5</b>	Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes.*	Integrated Math I Textbook	1: Searching for Patterns	1: Quantities and Relationships	2: Introduction to Exponential Functions
					Integrated Math I MATHia Software
		1: Is There a Pattern Here?: Recognizing Patterns and Sequences pp. M1-83–M1-98			
3: Relating the Domain to Exponential Functions					

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>F-IF.6</b>	Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.*	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	1: Connecting the Dots: Making Connections Between Arithmetic Sequences and Linear Functions pp. M2-7–M2-22
			3: Investigating Growth and Decay	2: Using Exponential Equations	1: Downtown and Uptown: Exponential Equations for Growth and Decay pp. M3-67–M3-76
		Integrated Math I MATHia Software	2: Exploring Constant Change	1: Linear Function Overview	1: Writing Sequences as Linear Functions 2: Understanding Linear Functions
			3: Investigating Growth and Decay	4: Compare Linear and Exponential Models	3: Calculating and Interpreting Average Rate of Change
<b>F-IF.7a</b>	Graph linear and quadratic functions and show intercepts, maxima, and minima.*	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	3: Move It!: Transforming Linear Functions pp. M2-41–M2-59
				3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-157–M2-172
<b>F-IF.7e</b>	Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.*	Integrated Math I Textbook	3: Investigating Growth and Decay	1: Introduction to Exponential Functions	1: Constant Ratios: Geometric Sequences and Exponential Functions pp. M3-7–M3-22
					3: My A, B, C, Ds: Transformations of Exponential Functions pp. M3-35–M3-57
<b>F-IF.9</b>	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	5: Making a Connection: Comparing Linear Functions in Different Forms pp. M2-73–M2-83
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	2: To the What?: Comparing Exponential Functions pp. M3-23–M3-34
		Integrated Math I MATHia Software	2: Exploring Constant Change	3: Modeling with Linear Functions	3: Comparing Linear Functions in Different Forms
			3: Investigating Growth and Decay	4: Compare Linear and Exponential Models	6: Comparing Exponential Functions in Different Forms

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>F-BF.1a</b>	Determine an explicit expression, a recursive process, or steps for calculation from a context.*	Integrated Math I Textbook	1: Searching for Patterns	2: Sequences	1: Is There a Pattern Here?: Recognizing Patterns and Sequences pp. M1-83–M1-98
					3: Did You Mean: Recursion?: Determining Recursive and Explicit Expressions from Contexts pp. M1-131–M1-142
		Integrated Math I	3: Investigating Growth and Decay	1: Introduction to Exponential Functions	1: Constant Ratios: Geometric Sequences and Exponential Functions pp. M3-7–M3-22
					2: To the What?: Comparing Exponential Functions pp. M3-23–M3-34
		1: Searching for Patterns	2: Sequences	2: Recursive Formulas 3: Writing Explicit Formulas	
<b>F-BF.1b</b>	Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.*	Integrated Math I Textbook	3: Investigating Growth and Decay	2: Using Exponential Equations	2: The Horizontal Line and Powers: Interpreting Parameters in Context pp. M3-77–M3-86
<b>F-BF.2</b>	Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations, and translate between the two forms.*	Integrated Math I Textbook	1: Searching for Patterns	2: Sequences	2: The Password Is: Operations: Arithmetic and Geometric Sequences pp. M1-99–M1-130
					4: 3 Pegs, N Discs: Modeling Using Sequences pp. M1-143–M1-154

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>F-BF.3</b>	Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$ , $kf(x)$ , $f(kx)$ , and $f(x + k)$ for specific values of $k$ (both positive and negative); find the value of $k$ given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them.	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	2: Fun with Functions, Linear Ones: Making Sense of Different Representations of a Linear Function pp. M2-23–M2-40
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	3: Move It!: Transforming Linear Functions pp. M2-41–M2-59
		Integrated Math I MATHia Software	2: Exploring Constant Change	2: Graphs of Linear Functions	1: Exploring Graphs of Linear Functions
			3: Investigating Growth and Decay	3: Linear and Exponential Transformations	1: Introduction to Transforming Exponential Functions
					2: Shifting Vertically
					3: Shifting Horizontally
4: Reflecting and Dilating using Graphs					
5: Transforming using Tables of Values					
6: Using Multiple Transformations					
<b>F-LE.1a</b>	Prove that linear functions grow by equal differences over equal intervals, and that exponential functions grow by equal factors over equal intervals.*	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	1: Connecting the Dots: Making Connections Between Arithmetic Sequences and Linear Functions pp. M2-7–M2-22
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	1: Constant Ratios: Geometric Sequences and Exponential Functions pp. M3-7–M3-22
<b>F-LE.1b</b>	Recognize situations in which one quantity changes at a constant rate per unit interval relative to another.*	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	1: Connecting the Dots: Making Connections Between Arithmetic Sequences and Linear Functions pp. M2-7–M2-22
		Integrated Math I MATHia Software	3: Investigating Growth and Decay	4: Compare Linear and Exponential Models	1: Recognizing Linear and Exponential Models
		Integrated Math II MATHia Software	3: Exploring Functions	3: Compare Linear and Exponential Models	1: Recognizing Linear and Exponential Models

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
F-LE.1c	Recognize situations in which a quantity grows or decays by a constant percent rate per unit interval relative to another.*	Integrated Math I Textbook	3: Investigating Growth and Decay	2: Using Exponential Equations	1: Downtown and Uptown: Exponential Equations for Growth and Decay pp. M3-67–M3-76
		Integrated Math I MATHia Software	3: Investigating Growth and Decay	4: Compare Linear and Exponential Models	1: Recognizing Linear and Exponential Models 2: Recognizing Growth and Decay
		Integrated Math II	3: Exploring Functions	3: Compare Linear and Exponential Models	1: Recognizing Linear and Exponential Models 2: Recognizing Growth and Decay
F-LE.2	Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or two input-output pairs (include reading these from a table).*	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	1: Connecting the Dots: Making Connections Between Arithmetic Sequences and Linear Functions pp. M2-7–M2-22
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	1: Constant Ratios: Geometric Sequences and Exponential Functions pp. M3-7–M3-22 2: To the What?: Comparing Exponential Functions pp. M3-23–M3-34
F-LE.3	Observe using graphs and tables that a quantity increasing exponentially eventually exceeds a quantity increasing linearly, quadratically, or (more generally) as a polynomial function.*	Integrated Math I Textbook	3: Investigating Growth and Decay	2: Using Exponential Equations	1: Downtown and Uptown: Exponential Equations for Growth and Decay pp. M3-67–M3-76
F-LE.5	Interpret the parameters in a linear or exponential function in terms of a context.*	Integrated Math I Textbook	3: Investigating Growth and Decay	1: Introduction to Exponential Functions	1: Constant Ratios: Geometric Sequences and Exponential Functions pp. M3-7–M3-22
				2: Using Exponential Equations	1: Downtown and Uptown: Exponential Equations for Growth and Decay pp. M3-67–M3-76 2: The Horizontal Line and Powers: Interpreting Parameters in Context pp. M3-77–M3-86

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>G-CO.1</b>	Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.	Integrated Math I Textbook	5: Analyzing Geometric Functions	1: Constructions	1: Construction Ahead: Constructing a Square pp. M5-7–M5-24
				2: Rigid Motions on a Plane	1: Put Your Input In, Take Your Output Out: Geometric Components of Rigid Motions pp. M5-53–M5-66
		Integrated Math I MATHia Software	5: Analyzing Geometric Functions	1: Lines, Rays, Segments, and Angles	1: Naming Lines, Rays, Segments, and Angles
					2: Working with Measures of Segments and Angles
		Integrated Math II MATHia Software	1: Reasoning with Shapes	1: Lines, Rays, Segments and Angles	1: Naming Lines, Rays, Segments, and Angles
				5: Introduction to Proofs with Segments and Angles	2: Working with Measures of Segments and Angles
			1: Introduction to Proofs		
			3: Completing Measure Proofs		
<b>G-CO.2</b>	Represent transformations in the plane using, e.g., transparencies and geometry software; describe transformations as functions that take points in the plane as inputs and give other points as outputs. Compare transformations that preserve distance and angle to those that do not (e.g., translation versus horizontal stretch).	Integrated Math I Textbook	5: Analyzing Geometric Functions	2: Rigid Motions on a Plane	2: Bow Thai: Translations as Functions pp. M5-67–M5-78
					3: Staring Back at Me: Reflections as Functions pp. M5-79–M5-92
					4: Turn Yourself Around: Rotations as Functions pp. M5-93–M5-106
<b>G-CO.3</b>	Given a rectangle, parallelogram, trapezoid, or regular polygon, describe the rotations and reflections that carry it onto itself.	Integrated Math I Textbook	5: Analyzing Geometric Functions	2: Rigid Motions on a Plane	5: OKEECHOBEE: Reflectional and Rotational Symmetry pp. M5-107–M5-116
		Integrated Math I MATHia	5: Analyzing Geometric Functions	2: Rigid Motion	4: Rotations and Reflections on the Plane
					5: Reflectional Symmetry
				6: Rotational Symmetry	

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>G-CO.4</b>	Develop definitions of rotations, reflections, and translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.	Integrated Math I Textbook	5: Analyzing Geometric Functions	2: Rigid Motions on a Plane	1: Put Your Input In, Take Your Output Out: Geometric Components of Rigid Motions pp. M5-53–M5-66 2: Bow Thai: Translations as Functions pp. M5-67–M5-78 3: Staring Back at Me: Reflections as Functions pp. M5-79–M5-92 4: Turn Yourself Around: Rotations as Functions pp. M5-93–M5-106
		Integrated Math I MATHia Software	5: Analyzing Geometric Functions	2: Rigid Motion	1: Developing Definitions of Rigid Motions
<b>G-CO.5</b>	Given a geometric figure and a rotation, reflection, or translation, draw the transformed figure using, e.g., graph paper, tracing paper, or geometry software. Specify a sequence of transformations that will carry a given figure onto another.	Integrated Math I Textbook	5: Analyzing Geometric Functions	2: Rigid Motions on a Plane	3: Staring Back at Me: Reflections as Functions pp. M5-79–M5-92 4: Turn Yourself Around: Rotations as Functions pp. M5-93–M5-106
		Integrated Math I MATHia Software	5: Analyzing Geometric Functions	2: Rigid Motion	3: Specifying a Sequence of Transformations
<b>G-CO.6</b>	Use geometric descriptions of rigid motions to transform figures and to predict the effect of a given rigid motion on a given figure; given two figures, use the definition of congruence in terms of rigid motions to decide if they are congruent.	Integrated Math I Textbook	5: Analyzing Geometric Functions	2: Rigid Motions on a Plane	1: Put Your Input In, Take Your Output Out: Geometric Components of Rigid Motions pp. M5-53–M5-66
				3: Congruence Through Transformations	3: I Never Forget a Face: Using Triangle Congruence to Solve Problems pp. M5-159–M5-170
<b>G-CO.7</b>	Use the definition of congruence in terms of rigid motions to show that two triangles are congruent if and only if corresponding pairs of sides and corresponding pairs of angles are congruent.	Integrated Math I Textbook	5: Analyzing Geometric Functions	3: Congruence Through Transformations	2: ASA, SAS, and SSS: Proving Triangle Congruence Theorems pp. M5-143–M5-157
		Integrated Math I MATHia Software	5: Analyzing Geometric Functions	3: Triangle Congruence	1: Introduction to Triangle Congruence
<b>G-CO.8</b>	Explain how the criteria for triangle congruence (ASA, SAS, and SSS) follow from the definition of congruence in terms of rigid motions.	Integrated Math I Textbook	5: Analyzing Geometric Functions	3: Congruence Through Transformations	2: ASA, SAS, and SSS: Proving Triangle Congruence Theorems pp. M5-143–M5-157
		Integrated Math I MATHia Software	5: Analyzing Geometric Functions	3: Triangle Congruence	1: Introduction to Triangle Congruence



Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)	
<b>G-CO.12</b>	Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.). Copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on the line.	Integrated Math I Textbook	5: Analyzing Geometric Functions	1: Constructions	1: Construction Ahead: Constructing a Square pp. M5-7–M5-24	
					2: Copycats: Constructing a Regular Hexagon Inscribed in a Circle pp. M5-25–M5-32	
					3: A Regular Triangle: Constructing an Equilateral Triangle pp. M5-33–M5-40	
<b>G-CO.13</b>	Construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle.	Integrated Math I Textbook	5: Analyzing Geometric Functions	1: Constructions	1: Construction Ahead: Constructing a Square pp. M5-7–M5-24	
					2: Copycats: Constructing a Regular Hexagon Inscribed in a Circle pp. M5-25–M5-32	
					3: A Regular Triangle: Constructing an Equilateral Triangle pp. M5-33–M5-40	
<b>G.GPE.4</b>	Use coordinates to prove simple geometric theorems algebraically.	Integrated Math I Textbook	2: Exploring Constant Change	4: Shapes on a Coordinate Plane	1: The Shape of Things: Classifying Shapes on the Coordinate Plane pp. M2-247–M2-266	
<b>G.GPE.5</b>	Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point).	Integrated Math I Textbook	2: Exploring Constant Change	1: Linear Functions	3: Move It!: Transforming Linear Functions pp. M2-41–M2-59	
					4: Amirite?: Determining Slopes of Perpendicular Lines pp. M2-61–M2-72	
					5: Making a Connection: Comparing Linear Functions in Different Forms pp. M2-73–M2-83	
		Integrated Math I MATHia	2: Exploring Constant Change	4: Parallel and Perpendicular Lines	4: Shapes on a Coordinate Plane	1: The Shape of Things: Classifying Shapes on the Coordinate Plane pp. M2-247–M2-266
					2: Know It Inside Out: Area and Perimeter of Triangles and Rectangles on the Coordinate Plane pp. M2-267–M2-286	
					1: Introduction to Parallel and Perpendicular Lines	
					2: Modeling Parallel and Perpendicular Lines	

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>G.GPE.7</b>	Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula.*	Integrated Math I Textbook	2: Exploring Constant Change	4: Shapes on a Coordinate Plane	2: Know It Inside Out: Area and Perimeter of Triangles and Rectangles on the Coordinate Plane pp. M2-267–M2-286
					3: In All Shapes and Sizes: Area and Perimeter of Polygons on the Coordinate Plane pp. M2-287–M2-300
		Integrated Math I MATHia Software	2: Exploring Constant Change	9: Distances on the Coordinate Plane	1: Deriving the Distance Formula
					2: Calculating Distances using the Distance Formula
<b>S-ID.1</b>	Represent data with plots on the real number line (dot plots, histograms, and box plots).*	Integrated Math I Textbook	4: Describing Distributions	1: One Variable Statistics	1: Represent!: Graphically Representing Data pp. M4-7–M4-16
					2: A Skewed Reality: Determining the Better Measure of Center and Spread for a Data Set pp. M4-17–M4-34
					3: Daring to Compare: Comparing Data Sets pp. M4-35–M4-44
		Integrated Math I MATHia Software	4: Describing Distributions	1: Numerical Summary Statistics	3: Comparing and Interpreting Measures of Center
<b>S-ID.2</b>	Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets.*	Integrated Math I Textbook	4: Describing Distributions	1: One Variable Statistics	1: Represent!: Graphically Representing Data pp. M4-7–M4-16
					2: A Skewed Reality: Determining the Better Measure of Center and Spread for a Data Set pp. M4-17–M4-34
					3: Daring to Compare: Comparing Data Sets pp. M4-35–M4-44
		Integrated Math I MATHia Software	4: Describing Distributions	1: Numerical Summary Statistics	1: Determining Appropriate Measures
				3: Comparing and Interpreting Measures of Center	
				4: Calculating Standard Deviation	

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>S-ID.3</b>	Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).*	Integrated Math I Textbook	4: Describing Distributions	1: One Variable Statistics	2: A Skewed Reality: Determining the Better Measure of Center and Spread for a Data Set pp. M4-17–M4-34
		Integrated Math I MATHia Software	4: Describing Distributions	1: Numerical Summary Statistics	3: Daring to Compare: Comparing Data Sets pp. M4-35–M4-44
					2: Measuring the Effects of Changing Data Sets
					3: Comparing and Interpreting Measures of Center
<b>S-ID.5</b>	Summarize categorical data for two categories in two-way frequency tables. Interpret relative frequencies in the context of the data (including joint, marginal, and conditional relative frequencies). Recognize possible associations and trends in the data.*	Integrated Math I Textbook	4: Describing Distributions	2: Two Variable Categorical Data	1: It Takes Two: Creating and Interpreting Frequency Distributions pp. M4-55–M4-71
		Integrated Math I MATHia Software	4: Describing Distributions	2: Categorical Data	2: Relatively Speaking: Relative Frequency Distribution pp. M4-73–M4-83
					3: On One Condition . . . or More: Conditional Relative Frequency Distribution pp. M4-85–M4-94
					4: Data Jam: Drawing Conclusions from Data pp. M4-95–M4-104
					1: Creating Marginal Frequency Distributions
					2: Using Marginal Frequency Distributions
					3: Creating Marginal Relative Frequency Distributions
		4: Using Marginal Relative Frequency Distributions			
		5: Creating Conditional Relative Frequency Distributions			
		6: Using Conditional Relative Frequency Distributions			
<b>S-ID.6</b>	Represent data on two quantitative variables on a scatter plot, and describe how the variables are related.*	Integrated Math I Textbook	1: Searching for Patterns	3: Linear Regressions	3: The Residual Effect: Creating Residual Plots pp. M1-193–M1-206
					4: To Fit or Not To Fit? That Is The Question!: Using Residual Plots pp. M1-207–M1-218

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>S-ID.6a</b>	Fit a function to the data; use functions fitted to data to solve problems in the context of the data. Use given functions or choose a function suggested by the context. Emphasize linear, quadratic, and exponential models.*	Integrated Math I Textbook	1: Searching for Patterns	3: Linear Regressions	1: Like a Glove: Least Squares Regressions pp. M1-163–M1-176
					2: Gotta Keep It Correlatin': Correlation pp. M1-177–M1-191
		Integrated Math I MATHia Software	1: Searching for Patterns	3: Linear Regression	3: The Residual Effect: Creating Residual Plots pp. M1-193–M1-206
					4: To Fit or Not To Fit? That Is The Question!: Using Residual Plots pp. M1-207–M1-218
					3: Tea and Carbon Dioxide: Modeling Using Exponential Functions pp. M3-87–M3-96
					4: BAC is BAD News: Choosing a Function to Model BAC pp. M3-97–M3-106
Integrated Math II MATHia Software	4: Seeing Structure	5: Applications of Quadratics	1: Exploring Linear Regression		
			2: Using Linear Regression		
<b>S-ID.6b</b>	Informally assess the fit of a function by plotting and analyzing residuals.*	Integrated Math I Textbook	1: Searching for Patterns	3: Linear Regressions	3: The Residual Effect: Creating Residual Plots pp. M1-193–M1-206
					4: To Fit or Not To Fit? That Is The Question!: Using Residual Plots pp. M1-207–M1-218
		Integrated Math I MATHia Software	1: Searching for Patterns	3: Linear Regression	4: Analyzing Residuals of Lines of Best Fit
<b>S-ID.6c</b>	Fit a linear function for a scatter plot that suggests a linear association.*	Integrated Math I Textbook	1: Searching for Patterns	3: Linear Regressions	1: Like a Glove: Least Squares Regressions pp. M1-163–M1-176

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>S-ID.6c</b>	Fit a linear function for a scatter plot that suggests a linear association.*	Integrated Math I Textbook	1: Searching for Patterns	3: Linear Regressions	2: Gotta Keep It Correlatin': Correlation pp. M1-177–M1-191 3: The Residual Effect: Creating Residual Plots pp. M1-193–M1-206 4: To Fit or Not To Fit? That Is The Question!: Using Residual Plots pp. M1-207–M1-218
		Integrated Math I MATHia Software	1: Searching for Patterns	3: Linear Regression	1: Exploring Linear Regression
<b>S-ID.7</b>	Interpret the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data.*	Integrated Math I Textbook	1: Searching for Patterns	3: Linear Regressions	1: Like a Glove: Least Squares Regressions pp. M1-163–M1-176
		Integrated Math I	1: Searching for Patterns	3: Linear Regression	1: Exploring Linear Regression 3: Interpreting Lines of Best Fit
<b>S-ID.8</b>	Compute (using technology) and interpret the correlation coefficient of a linear fit.*	Integrated Math I Textbook	1: Searching for Patterns	3: Linear Regressions	2: Gotta Keep It Correlatin': Correlation pp. M1-177–M1-191
		Integrated Math I MATHia Software	1: Searching for Patterns	3: Linear Regression	3: Interpreting Lines of Best Fit
<b>S-ID.9</b>	Distinguish between correlation and causation.*	Integrated Math I Textbook	1: Searching for Patterns	3: Linear Regressions	2: Gotta Keep It Correlatin': Correlation pp. M1-177–M1-191