

Table of Contents

ALGI.1	1	ALGI.17	10	ALGI.34	19
ALGI.2	1	ALGI.17a	10	ALGI.35	20
ALGI.3	1	ALGI.17b	11	ALGI.35a	20
ALGI.4	1	ALGI.18	11	ALGI.35b	21
ALGI.4	2	ALGI.19	11	ALGI.35c	21
ALGI.5	2	ALGI.19a	12	ALGI.36	21
ALGI.6	2	ALGI.20	12	ALGI.36a	22
ALGI.6a	2	ALGI.21	13	ALGI.37	22
ALGI.6a	3	ALGI.22	13	ALGI.38	22
ALGI.6b	3	ALGI.22a	13	ALGI.39	22
ALGI.6c	3	ALGI.23	14	ALGI.40	22
ALGI.7	3	ALGI.24a	14	ALGI.41	22
ALGI.9	3	ALGI.24b	15		
ALGI.9a	4	ALGI.24c	15		
ALGI.9b	4	ALGI.25	15		
ALGI.10	4	ALGI.26	15		
ALGI.10a	5	ALGI.27	15		
ALGI.10b	5	ALGI.28	16		
ALGI.11	6	ALGI.28	17		
ALGI.12	7	ALGI.29	17		
ALGI.13	8	ALGI.29	18		
ALGI.14	8	ALGI.30	18		
ALGI.14	9	ALGI.30a	18		
ALGI.15	9	ALGI.30a	19		
ALGI.15a	10	ALGI.30b	19		
ALGI.15b	10	ALGI.30c	19		
ALGI.16	10	ALGI.31	19		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.1	Explain how the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for an additional notation for radicals using rational exponents.	Algebra I Textbook	3: Investigating Growth and Decay	1: Introduction to Exponential Functions	2: The Power Within: Rational Exponents and Graphs of Exponential Functions pp. M3-23–M3-44
		Algebra I MATHia Software	3: Investigating Growth and Decay	2: Rational Exponents	2: Properties of Rational Exponents
ALGI.2	Rewrite expressions involving radicals and rational exponents using the properties of exponents.	Algebra I Textbook	3: Investigating Growth and Decay	1: Introduction to Exponential Functions	2: The Power Within: Rational Exponents and Graphs of Exponential Functions pp. M3-23–M3-44
			5: Maximizing and Minimizing	2: Solving Quadratic Equations	2: Solutions, More or Less: Representing Solutions to Quadratic Equations pp. M5-127–M5-140 5: Ladies and Gentlemen: Please Welcome the Quadratic Formula: The Quadratic Formula pp. M5-175–M5-202
		Algebra I MATHia Software	3: Investigating Growth and Decay	2: Rational Exponents	3: Rewriting Expressions with Radical and Rational Exponents
ALGI.3	Define the imaginary number i such that $i^2 = -1$.	Algebra I Textbook	5: Maximizing and Minimizing	2: Solving Quadratic Equations	5: Ladies and Gentlemen: Please Welcome the Quadratic Formula: The Quadratic Formula pp. M5-175–M5-202
ALGI.4	Interpret linear, quadratic, and exponential expressions in terms of a context by viewing one or more of their parts as a single entity.	Algebra 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	2: Using Exponential Equations	1: Uptown and Downtown: Exponential Equations for Growth and Decay pp. M3-81–M3-92
			5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	2: Endless Forms Most Beautiful: Key Characteristics of Quadratic Functions pp. M5-23–M5-46 4: You Lose Some, You Lose Some: Comparing Functions Using Key Characteristics and Average Rate of Change pp. M5-73–M5-88
				2: Solving Quadratic Equations	1: This Time, with Polynomials: Adding, Subtracting, and Multiplying Polynomials pp. M5-101–M5-125 5: Ladies and Gentlemen: Please Welcome the Quadratic Formula: The Quadratic Formula pp. M5-175–M5-202

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ALGI.4	Interpret linear, quadratic, and exponential expressions in terms of a context by viewing one or more of their parts as a single entity.	Algebra I MATHia Software	1: Searching for Patterns	1: Function Overview	4: Identifying Parts of Complex Algebraic Expressions
ALGI.5	Use the structure of an expression to identify ways to rewrite it.	Algebra I Textbook	5: Maximizing and Minimizing	2: Solving Quadratic Equations	2: Solutions, More or Less: Representing Solutions to Quadratic Equations pp. M5-127–M5-140
		Algebra I MATHia Software	5: Maximizing and Minimizing	5: Quadratic Equation Solving	3: Transforming Solutions: Solutions to Quadratic Equations in Vertex Form pp. M5-141–M5-152
ALGI.6	Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.	Algebra I Textbook	3: Investigating Growth and Decay	2: Using Exponential Equations	2: Powers and the Horizontal Line: Interpreting Parameters in Context pp. M3-93–M3-102
			5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	2: Endless Forms Most Beautiful: Key Characteristics of Quadratic Functions pp. M5-23–M5-46
				2: Solving Quadratic Equations	3: More Than Meets the Eye: Transformations of Quadratic Functions pp. M5-47–M5-72
					2: Solutions, More or Less: Representing Solutions to Quadratic Equations pp. M5-127–M5-140
3: Transforming Solutions: Solutions to Quadratic Equations in Vertex Form pp. M5-141–M5-152					
ALGI.6a	Factor quadratic expressions with leading coefficients of one, and use the factored form to reveal the zeros of the function it defines.	Algebra I Textbook	5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	2: Solutions, More or Less: Representing Solutions to Quadratic Equations pp. M5-127–M5-140
				2: Solving Quadratic Equations	3: More Than Meets the Eye: Transformations of Quadratic Functions pp. M5-47–M5-72
					3: Transforming Solutions: Solutions to Quadratic Equations in Vertex Form pp. M5-141–M5-152

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ALGI.6a	Factor quadratic expressions with leading coefficients of one, and use the factored form to reveal the zeros of the function it defines.	Algebra I MATHia Software	5: Maximizing and Minimizing	5: Quadratic Equation Solving	2: Factoring Trinomials with Coefficients of One
					5: Factoring Quadratic Expressions
					7: Problem Solving Using Factoring
				6: Forms of Quadratics	1: Converting Quadratics to General Form
					2: Converting Quadratics to Factored Form
3: Converting Quadratics to Vertex Form					
ALGI.6b	Use the vertex form of a quadratic expression to reveal the maximum or minimum value and the axis of symmetry of the function it defines; complete the square to find the vertex form of quadratics with a leading coefficient of one.	Algebra I Textbook	5: Maximizing and Minimizing	2: Solving Quadratic Equations	4: The Missing Link: Factoring and Completing the Square pp. M5-153–M5-174
		Algebra I MATHia Software	5: Maximizing and Minimizing	5: Quadratic Equation Solving	9: Problem Solving Using Completing the Square
				6: Forms of Quadratics	1: Converting Quadratics to General Form
					2: Converting Quadratics to Factored Form
					3: Converting Quadratics to Vertex Form
ALGI.6c	Use the properties of exponents to transform expressions for exponential functions.	Algebra I Textbook	3: Investigating Growth and Decay	2: Using Exponential Equations	2: Powers and the Horizontal Line: Interpreting Parameters in Context pp. M3-93–M3-102
ALGI.7	Add, subtract, and multiply polynomials, showing that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication.	Algebra I Textbook	5: Maximizing and Minimizing	2: Solving Quadratic Equations	1: This Time, with Polynomials: Adding, Subtracting, and Multiplying Polynomials pp. M5-101–M5-125
		Algebra I MATHia Software	5: Maximizing and Minimizing	4: Polynomial Operations	1: Introduction to Polynomial Arithmetic
					3: Adding Polynomials
					4: Subtracting Polynomials
					5: Using a Factor Table to Multiply Binomials
6: Multiplying Binomials					
ALGI.9	Select an appropriate method to solve a quadratic equation in one variable.	Algebra I Textbook	5: Maximizing and Minimizing	2: Solving Quadratic Equations	5: Ladies and Gentlemen: Please Welcome the Quadratic Formula: The Quadratic Formula pp. M5-175–M5-202
				3: Applications of Quadratics	1: Ahead of the Curve: Solving Quadratic Inequalities pp. M5-215–M5-224

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)			
ALGI.9a	Use the method of completing the square to transform any quadratic equation in x into an equation of the form $(x - p)^2 = q$ that has the same solutions. Explain how the quadratic formula is derived from this form.	Algebra I Textbook	5: Maximizing and Minimizing	2: Solving Quadratic Equations	4: The Missing Link: Factoring and Completing the Square pp. M5-153–M5-174 5: Ladies and Gentlemen: Please Welcome the Quadratic Formula: The Quadratic Formula pp. M5-175–M5-202			
				3: Applications of Quadratics	1: Ahead of the Curve: Solving Quadratic Inequalities pp. M5-215–M5-224			
		Algebra I MATHia	5: Maximizing and Minimizing	5: Quadratic Equation Solving	8: Completing the Square 10: Deriving the Quadratic Formula			
ALGI.9b	Solve quadratic equations by inspection (such as $x^2 = 49$), taking square roots, completing the square, the quadratic formula, and factoring, as appropriate to the initial form of the equation, and recognize that some solutions may not be real.	Algebra I Textbook	5: Maximizing and Minimizing	2: Solving Quadratic Equations	2: Solutions, More or Less: Representing Solutions to Quadratic Equations pp. M5-127–M5-140 5: Ladies and Gentlemen: Please Welcome the Quadratic Formula: The Quadratic Formula pp. M5-175–M5-202			
				3: Applications of Quadratics	1: Ahead of the Curve: Solving Quadratic Inequalities pp. M5-215–M5-224			
		Algebra I MATHia Software	5: Maximizing and Minimizing	5: Quadratic Equation Solving	6: Solving Quadratic Equations by Factoring 10: Deriving the Quadratic Formula 11: Solving Quadratic Equations			
ALGI.10	Select an appropriate method to solve a system of two linear equations in two variables.	Algebra I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-139–M2-154 2: The Elimination Round: Using Linear Combinations to Solve a System of Linear Equations pp. M2-155–M2-168 5: Working the System: Solving Systems of Equations and Inequalities pp. M2-199–M2-208			
					Algebra I MATHia	2: Exploring Constant Change	6: Systems of Linear Equations	1: Representing Systems of Linear Functions 3: Solving Linear Systems Using Any Method

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.10a	Solve a system of two equations in two variables by using linear combinations; contrast situations in which use of linear combinations is more efficient with those in which substitution is more efficient.	Algebra 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. M2-155–M2-168
		Algebra I MATHia Software	2: Exploring Constant Change	6: Systems of Linear Equations	2: Solving Linear Systems Using Linear Combinations 3: Solving Linear Systems Using Any Method
ALGI.10b	Contrast solutions to a system of two linear equations in two variables produced by algebraic methods with graphical and tabular methods.	Algebra I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-139–M2-154
		Algebra I MATHia Software	2: Exploring Constant Change	6: Systems of Linear Equations	3: Solving Linear Systems Using Any Method

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.11	Create equations and inequalities in one variable and use them to solve problems in context, either exactly or approximately. Extend from contexts arising from linear functions to those involving quadratic, exponential, and absolute value functions.	Algebra 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. M2-79–M2-90
					3: Not All Statements Are Made Equal: Modeling Linear Inequalities pp. M2-103–M2-116
			4: Functions Derived from Linear Relationships	4: Don't Confound Your Compounds: Solving and Graphing Compound Inequalities pp. M2-117–M2-130	
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	2: The Power Within: Rational Exponents and Graphs of Exponential Functions pp. M3-23–M3-44
				2: Using Exponential Equations	1: Uptown and Downtown: Exponential Equations for Growth and Decay pp. M3-81–M3-92
		2: Powers and the Horizontal Line: Interpreting Parameters in Context pp. M3-93–M3-102			
		5: Maximizing and Minimizing	3: Applications of Quadratics	1: Ahead of the Curve: Solving Quadratic Inequalities pp. M5-215–M5-224	
		Algebra 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
			5: Maximizing and Minimizing	1: Modeling Quadratic Functions	1: Modeling Area as Product of Monomial and Binomial
		2: Modeling Area as Product of Two Binomials			
3: Interpreting Maximums of Quadratic Models					

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.12	Create equations in two or more variables to represent relationships between quantities in context; graph equations on coordinate axes with labels and scales and use them to make predictions. Limit to contexts arising from linear, quadratic, exponential, absolute value, and linear piecewise functions.	Algebra I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-139–M2-154
					2: The Elimination Round: Using Linear Combinations to Solve a System of Linear Equations pp. M2-155–M2-168
					3: Throwing Shade: Graphing Inequalities in Two Variables pp. M2-169–M2-184
			4: Functions Derived from Linear Relationships	1: Putting the V in Absolute Value: Defining Absolute Value Functions and Transformations pp. M2-229–M2-246	
				2: Play Ball!: Absolute Value Equations and Inequalities pp. M2-247–M2-260	
				3: I Graph in Pieces: Linear Piecewise Functions pp. M2-261–M2-274	
		3: Investigating Growth and Decay	2: Using Exponential Equations	1: Uptown and Downtown: Exponential Equations for Growth and Decay pp. M3-81–M3-92	
				2: Powers and the Horizontal Line: Interpreting Parameters in Context pp. M3-93–M3-102	
		5: Maximizing and Minimizing	3: Applications of Quadratics	1: Ahead of the Curve: Solving Quadratic Inequalities pp. M5-215–M5-224	
				2: All Systems Are Go!: Systems of Quadratic Equations pp. M5-225–M5-236	
Algebra I MATHia Software	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)
ALGI.13	Represent constraints by equations and/or inequalities, and solve systems of equations and/or inequalities, interpreting solutions as viable or nonviable options in a modeling context. Limit to contexts arising from linear, quadratic, exponential, absolute value, and linear piecewise functions.	Algebra I Textbook	2: Exploring Constant Change	2: Solving Linear Equations and Inequalities	3: Not All Statements Are Made Equal: Modeling Linear Inequalities pp. M2-103–M2-116
				3: Systems of Equations and Inequalities	3: Throwing Shade: Graphing Inequalities in Two Variables pp. M2-169–M2-184
					4: Working with Constraints: Systems of Linear Inequalities pp. M2-185–M2-198
					5: Working the System: Solving Systems of Equations and Inequalities pp. M2-199–M2-208
				6: Take It to the Max...or Min: Linear Programming pp. M2-209–M2-218	
		4: Functions Derived from Linear Relationships	2: Play Ball!: Absolute Value Equations and Inequalities pp. M2-247–M2-260		
		5: Maximizing and Minimizing	3: Applications of Quadratics	1: Ahead of the Curve: Solving Quadratic Inequalities pp. M5-215–M5-224	
				2: All Systems Are Go!: Systems of Quadratic Equations pp. M5-225–M5-236	
Algebra I MATHia Software	2: Exploring Constant Change	2: Graphing Simple Absolute Value Equations Using Number Lines			
		3: Solving Absolute Value Equations			
		4: Reasoning About Absolute Value Inequalities			
ALGI.14	Given a relation defined by an equation in two variables, identify the graph of the relation as the set of all its solutions plotted in the coordinate plane.	Algebra 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

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)	
ALGI.14	Given a relation defined by an equation in two variables, identify the graph of the relation as the set of all its solutions plotted in the coordinate plane.	Algebra I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-139–M2-154	
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	1: A Constant Ratio: Geometric Sequences and Exponential Functions pp. M3-7–M3-22	
				2: Using Exponential Equations	2: Powers and the Horizontal Line: Interpreting Parameters in Context pp. M3-93–M3-102	
			5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	1: Up and Down or Down and Up: Exploring Quadratic Functions pp. M5-7–M5-22	
		2: Solving Quadratic Equations		2: Solutions, More or Less: Representing Solutions to Quadratic Equations pp. M5-127–M5-140		
		Algebra I MATHia Software	2: Exploring Constant Change	2: Graphs of Linear Functions	1: Exploring 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				
ALGI.15	Define a function as a mapping from one set (called the domain) to another set (called the range) that assigns to each element of the domain exactly one element of the range.	Algebra 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: F of X: Recognizing Functions and Function Families pp. M1-39–M1-62	
		Algebra 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	
					2: Introduction to Function Families	
			1: Searching for Patterns	2: Exploring Constant Change	1: Function Overview	1: Writing Sequences as Linear Functions
					1: Linear Function Overview	2: Understanding Linear Functions
2: Exploring Constant Change	2: Graphs of Linear Functions	1: Exploring Graphs of Linear Functions				
		2: Identifying Key Characteristics of Graphs of Functions				

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ALGI.15a	Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context.	Algebra 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
		Algebra I MATHia Software	1: Searching for Patterns	3: Systems of Equations and Inequalities	6: Take It to the Max...or Min: Linear Programming pp. M2-209–M2-218
ALGI.15b	Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. Limit to linear, quadratic, exponential, and absolute value functions.	Algebra I Textbook	1: Searching for Patterns	1: Quantities and Relationships	3: F of X: Recognizing Functions and Function Families pp. M1-39–M1-62
			5: Maximizing and Minimizing	2: Sequences	1: Is There a Pattern Here?: Recognizing Patterns and Sequences pp. M1-87–M1-102
		Algebra I MATHia Software	3: Investigating Growth and Decay	1: Introduction to Quadratic Functions	1: Up and Down or Down and Up: Exploring Quadratic Functions pp. M5-7–M5-22
ALGI.16	Compare and contrast relations and functions represented by equations, graphs, or tables that show related values; determine whether a relation is a function. Explain that a function f is a special kind of relation defined by the equation $y = f(x)$.	Algebra I Textbook	1: Searching for Patterns	1: Quantities and Relationships	3: F of X: Recognizing Functions and Function Families pp. M1-39–M1-62
ALGI.17	Combine different types of standard functions to write, evaluate, and interpret functions in context. Limit to linear, quadratic, exponential, and absolute value functions.	Algebra I Textbook	3: Investigating Growth and Decay	2: Using Exponential Equations	3: Savings, Tea, and Carbon Dioxide: Modeling Using Exponential Functions pp. M3-103–M3-114
ALGI.17a	Use arithmetic operations to combine different types of standard functions to write and evaluate functions.	Algebra I Textbook	3: Investigating Growth and Decay	2: Using Exponential Equations	3: Savings, Tea, and Carbon Dioxide: Modeling Using Exponential Functions pp. M3-103–M3-114
		Algebra I MATHia Software	5: Maximizing and Minimizing	8: Function Operations	1: Adding and Subtracting Linear Functions

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.17b	Use function composition to combine different types of standard functions to write and evaluate functions.	Algebra II Textbook	3: Inverting Functions	1: Radical Functions	2: Such a Rad Lesson: Radical Functions pp. M3-19–M3-40
ALGI.18	Solve systems consisting of linear and/or quadratic equations in two variables graphically, using technology where appropriate.	Algebra I Textbook	5: Maximizing and Minimizing	3: Applications of Quadratics	2: All Systems Are Go!: Systems of Quadratic Equations pp. M5-225–M5-236
ALGI.19	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 $f(x) = g(x)$.	Algebra I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-139–M2-154 6: Take It to the Max...or Min: Linear Programming pp. M2-209–M2-218
				4: Functions Derived from Linear Relationships	2: Play Ball!: Absolute Value Equations and Inequalities pp. M2-247–M2-260
			3: Investigating Growth and Decay	2: Using Exponential Equations	2: Powers and the Horizontal Line: Interpreting Parameters in Context pp. M3-93–M3-102
			5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	1: Up and Down or Down and Up: Exploring Quadratic Functions pp. M5-7–M5-22
		3: Applications of Quadratics		2: All Systems Are Go!: Systems of Quadratic Equations pp. M5-225–M5-236	
		Algebra I MATHia Software	2: Exploring Constant Change	6: Systems of Linear Equations	1: Representing Systems of Linear Functions
			3: Investigating Growth and Decay	5: Solving Exponential Equations	1: Solving Exponential Equations Using a Graph
			5: Maximizing and Minimizing	5: Quadratic Equation Solving	1: Making Sense of Roots and Zeros

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ALGI.19a	Find the approximate solutions of an equation graphically, using tables of values, or finding successive approximations, using technology where appropriate. Note: Include cases where $f(x)$ is a linear, quadratic, exponential, or absolute value function and $g(x)$ is constant or linear.	Algebra I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-139–M2-154
				6: Take It to the Max...or Min: Linear Programming pp. M2-209–M2-218	
			4: Functions Derived from Linear Relationships	2: Play Ball!: Absolute Value Equations and Inequalities pp. M2-247–M2-260	
			3: Investigating Growth and Decay	2: Powers and the Horizontal Line: Interpreting Parameters in Context pp. M3-93–M3-102	
			5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	1: Up and Down or Down and Up: Exploring Quadratic Functions pp. M5-7–M5-22
		3: Applications of Quadratics		2: All Systems Are Go!: Systems of Quadratic Equations pp. M5-225–M5-236	
		Algebra I MATHia Software	2: Exploring Constant Change	6: Systems of Linear Equations	1: Representing Systems of Linear Functions
			3: Investigating Growth and Decay	5: Solving Exponential Equations	1: Solving Exponential Equations Using a Graph
			5: Maximizing and Minimizing	5: Quadratic Equation Solving	1: Making Sense of Roots and Zeros
ALGI.20	Graph the solutions to a linear inequality in two variables as a half-plane (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, using technology where appropriate.	Algebra I Textbook	2: Exploring Constant Change	3: Systems of Equations and Inequalities	3: Throwing Shade: Graphing Inequalities in Two Variables pp. M2-169–M2-184
					4: Working with Constraints: Systems of Linear Inequalities pp. M2-185–M2-198
					5: Working the System: Solving Systems of Equations and Inequalities pp. M2-199–M2-208
					6: Take It to the Max...or Min: Linear Programming pp. M2-209–M2-218
		Algebra I MATHia Software	2: Exploring Constant Change	7: 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)
ALGI.21	Compare properties of two functions, each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). Extend from linear to quadratic, exponential, absolute value, and general piecewise.	Algebra I Textbook	2: Exploring Constant Change	1: Linear Functions	4: Connect Four: Comparing Linear Functions in Different Forms pp. M2-59–M2-67
			3: Investigating Growth and Decay	2: Using Exponential Equations	3: Savings, Tea, and Carbon Dioxide: Modeling Using Exponential Functions pp. M3-103–M3-114
			5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	4: You Lose Some, You Lose Some: Comparing Functions Using Key Characteristics and Average Rate of Change pp. M5-73–M5-88
		Algebra I MATHia Software	2: Exploring Constant Change	3: Modeling with Linear Functions	3: Comparing Linear Functions in Multiple Forms
			3: Investigating Growth and Decay	4: Compare Linear and Exponential Models	6: Comparing Exponential Functions in Different Forms
			5: Maximizing and Minimizing	3: Properties of Quadratic Functions	3: Comparing Quadratic Functions in Different Forms
ALGI.22	Define sequences as functions, including recursive definitions, whose domain is a subset of the integers.	Algebra I Textbook	1: Searching for Patterns	2: Sequences	1: Is There a Pattern Here?: Recognizing Patterns and Sequences pp. M1-87–M1-102
			2: Exploring Constant Change	1: Linear Functions	1: Connecting the Dots: Making Connections Between Arithmetic Sequences and Linear Functions pp. M2-7–M2-22
		Algebra I MATHia Software	1: Searching for Patterns	2: Sequences	1: Describing Patterns in Sequences 2: Writing Recursive Formulas
			3: Investigating Growth and Decay	1: Exponential Functions	1: Writing Sequences as Exponential Functions
ALGI.22a	Write explicit and recursive formulas for arithmetic and geometric sequences and connect them to linear and exponential functions.	Algebra I Textbook	1: Searching for Patterns	2: Sequences	2: The Password Is...Operations!: Arithmetic and Geometric Sequences pp. M1-103–M1-134
					4: 3 Pegs, N Discs: Modeling Using Sequences pp. M1-147–M1-158

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.23	Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k \cdot f(x)$, $f(kx)$, 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 explain the effects on the graph, using technology as appropriate. Extend from linear to quadratic, exponential, absolute value, and linear piecewise functions.	Algebra 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: Get Your Move On: Transforming Linear Functions pp. M2-41–M2-57
			4: Functions Derived from Linear Relationships	1: Putting the V in Absolute Value: Defining Absolute Value Functions and Transformations pp. M2-229–M2-246	
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	3: Now I Know My A, B, C, Ds: Transformations of Exponential Functions pp. M3-45–M3-69
			5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	3: More Than Meets the Eye: Transformations of Quadratic Functions pp. M5-47–M5-72
		Algebra 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: Maximizing and Minimizing	Unit 2, Linear and Quadratic Transformations	5: Transforming Using Tables of Values			
		6: Using Multiple Transformations			
		1: Shifting Vertically			
4: Polynomial Operations	2: Operating with Functions on the Coordinate Plane	2: Shifting Horizontally			
		3: Reflecting and Dilating Using Graphs			
ALGI.24a	Show that linear functions grow by equal differences over equal intervals, while exponential functions grow by equal factors over equal intervals.	Algebra 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: A Constant Ratio: Geometric Sequences and Exponential Functions pp. M3-7–M3-22

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.24b	Define linear functions to represent situations in which one quantity changes at a constant rate per unit interval relative to another.	Algebra 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
		Algebra I MATHia Software	3: Investigating Growth and Decay	4: Compare Linear and Exponential Models	1: Recognizing Linear and Exponential Models
ALGI.24c	Define exponential functions to represent situations in which a quantity grows or decays by a constant percent rate per unit interval relative to another.	Algebra I Textbook	3: Investigating Growth and Decay	2: Using Exponential Equations	1: Uptown and Downtown: Exponential Equations for Growth and Decay pp. M3-81–M3-92
		Algebra I MATHia	3: Investigating Growth and Decay	4: Compare Linear and Exponential Models	1: Recognizing Linear and Exponential Models 2: Recognizing Growth and Decay
ALGI.25	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).	Algebra 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: A Constant Ratio: Geometric Sequences and Exponential Functions pp. M3-7–M3-22 2: The Power Within: Rational Exponents and Graphs of Exponential Functions pp. M3-23–M3-44
ALGI.26	Use graphs and tables to show that a quantity increasing exponentially eventually exceeds a quantity increasing linearly or quadratically.	Algebra I Textbook	3: Investigating Growth and Decay	2: Using Exponential Equations	1: Uptown and Downtown: Exponential Equations for Growth and Decay pp. M3-81–M3-92
			5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	4: You Lose Some, You Lose Some: Comparing Functions Using Key Characteristics and Average Rate of Change pp. M5-73–M5-88
ALGI.27	Interpret the parameters of functions in terms of a context. Extend from linear functions, written in the form $mx + b$, to exponential functions, written in the form ab^x .	Algebra I Textbook	3: Investigating Growth and Decay	1: Introduction to Exponential Functions	1: A Constant Ratio: Geometric Sequences and Exponential Functions pp. M3-7–M3-22
				2: Using Exponential Equations	1: Uptown and Downtown: Exponential Equations for Growth and Decay pp. M3-81–M3-92 2: Powers and the Horizontal Line: Interpreting Parameters in Context pp. M3-93–M3-102

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.28	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. Note: Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; maximums and minimums; symmetries; and end behavior. Extend from relationships that can be represented by linear functions to quadratic, exponential, absolute value, and linear piecewise functions.	Algebra 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

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)		
ALGI.28	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. Note: Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; maximums and minimums; symmetries; and end behavior. Extend from relationships that can be represented by linear functions to quadratic, exponential, absolute value, and linear piecewise functions.	Algebra I Textbook	1: Searching for Patterns	1: Quantities and Relationships	3: F of X: Recognizing Functions and Function Families pp. M1-39–M1-62 4: Function Families for 200, Alex: Recognizing Functions by Characteristics pp. M1-63–M1-75		
			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: Get Your Move On: Transforming Linear Functions pp. M2-41–M2-57		
			3: Investigating Growth and Decay	4: Functions Derived from Linear Relationships	3: I Graph in Pieces: Linear Piecewise Functions pp. M2-261–M2-274		
			5: Maximizing and Minimizing	1: Introduction to Exponential Functions	3: Now I Know My A, B, C, Ds: Transformations of Exponential Functions pp. M3-45–M3-69		
					1: Introduction to Quadratic Functions	1: Up and Down or Down and Up: Exploring Quadratic Functions pp. M5-7–M5-22 2: Endless Forms Most Beautiful: Key Characteristics of Quadratic Functions pp. M5-23–M5-46	
		Algebra I MATHia Software	3: Investigating Growth and Decay	1: Exponential Functions	2: Introduction to Exponential Functions		
			5: Maximizing and Minimizing	1: Modeling Quadratic Functions	4: Modeling Projectile Motion 5: Recognizing Key Features of Vertical Motion Graphs		
		ALGI.29			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. Limit to linear, quadratic, exponential, and absolute value functions.	Algebra I Textbook	2: Exploring Constant Change
			3: Investigating Growth and Decay	2: Using Exponential Equations			1: Uptown and Downtown: Exponential Equations for Growth and Decay pp. M3-81–M3-92
5: Maximizing and Minimizing	1: Introduction to Quadratic Functions		2: Endless Forms Most Beautiful: Key Characteristics of Quadratic Functions pp. M5-23–M5-46				

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.29	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. Limit to linear, quadratic, exponential, and absolute value functions.	Algebra 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
ALGI.30	Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.	Algebra I Textbook	2: Exploring Constant Change	1: Linear Functions	3: Get Your Move On: Transforming Linear Functions pp. M2-41–M2-57
				3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-139–M2-154
				4: Functions Derived from Linear Relationships	1: Putting the V in Absolute Value: Defining Absolute Value Functions and Transformations pp. M2-229–M2-246 2: Play Ball!: Absolute Value Equations and Inequalities pp. M2-247–M2-260 3: I Graph in Pieces: Linear Piecewise Functions pp. M2-261–M2-274 4: Step by Step: Step Functions pp. M2-275–M2-286
			3: Investigating Growth and Decay	1: Introduction to Exponential Functions	3: Now I Know My A, B, C, Ds: Transformations of Exponential Functions pp. M3-45–M3-69
			5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	1: Up and Down or Down and Up: Exploring Quadratic Functions pp. M5-7–M5-22 2: Endless Forms Most Beautiful: Key Characteristics of Quadratic Functions pp. M5-23–M5-46
ALGI.30a	Graph linear and quadratic functions and show intercepts, maxima, and minima.	Algebra I Textbook	2: Exploring Constant Change	1: Linear Functions	3: Get Your Move On: Transforming Linear Functions pp. M2-41–M2-57
				3: Systems of Equations and Inequalities	1: Double the Fun: Introduction to Systems of Equations pp. M2-139–M2-154

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.30a	Graph linear and quadratic functions and show intercepts, maxima, and minima.	Algebra I Textbook	5: Maximizing and Minimizing	1: Introduction to Quadratic Functions	1: Up and Down or Down and Up: Exploring Quadratic Functions pp. M5-7–M5-22
		Algebra I MATHia Software	5: Maximizing and Minimizing	3: Properties of Quadratic Functions	2: Endless Forms Most Beautiful: Key Characteristics of Quadratic Functions pp. M5-23–M5-46
ALGI.30b	Graph piecewise-defined functions, including step functions and absolute value functions.	Algebra I Textbook	2: Exploring Constant Change	4: Functions Derived from Linear Relationships	1: Putting the V in Absolute Value: Defining Absolute Value Functions and Transformations pp. M2-229–M2-246
					2: Play Ball!: Absolute Value Equations and Inequalities pp. M2-247–M2-260
					3: I Graph in Pieces: Linear Piecewise Functions pp. M2-261–M2-274
					4: Step by Step: Step Functions pp. M2-275–M2-286
		Algebra I MATHia Software	2: Exploring Constant Change	8: Absolute Value Equations	1: Building Absolute Value Functions
9: Graphs of Piecewise Functions	1: Introduction to Piecewise Functions				
2: Graphing Linear Piecewise Functions	2: Interpreting Piecewise Functions				
3: Using Linear Piecewise Functions	3: Analyzing Step Functions				
ALGI.30c	Graph exponential functions, showing intercepts and end behavior.	Algebra I Textbook	3: Investigating Growth and Decay	1: Introduction to Exponential Functions	3: Now I Know My A, B, C, Ds: Transformations of Exponential Functions pp. M3-45–M3-69
ALGI.31	Use the mathematical modeling cycle to solve real-world problems involving linear, quadratic, exponential, absolute value, and linear piecewise functions.	Algebra I Textbook	1: Searching for Patterns	2: Sequences	4: 3 Pegs, N Discs: Modeling Using Sequences pp. M1-147–M1-158
			3: Investigating Growth and Decay	2: Using Exponential Equations	4: BAC is BAD News: Choosing a Function to Model BAC pp. M3-115–M3-124
ALGI.34	Distinguish between quantitative and categorical data and between the techniques that may be used for analyzing data of these two types.	Algebra I Textbook	4: Describing Distributions	2: Two-Variable Categorical Data	1: It Takes Two: Creating and Interpreting Frequency Distributions pp. M4-55–M4-71

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.35	Analyze the possible association between two categorical variables.	Algebra I Textbook	4: Describing Distributions	2: Two-Variable Categorical Data	1: It Takes Two: Creating and Interpreting Frequency Distributions pp. M4-55–M4-71
					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
		Algebra I MATHia Software	4: Describing Distributions	2: Categorical Data	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
ALGI.35a	Summarize categorical data for two categories in two-way frequency tables and represent using segmented bar graphs.	Algebra I Textbook	4: Describing Distributions	2: Two-Variable Categorical Data	1: It Takes Two: Creating and Interpreting Frequency Distributions pp. M4-55–M4-71
					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

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.35b	Interpret relative frequencies in the context of categorical data (including joint, marginal, and conditional relative frequencies).	Algebra I Textbook	4: Describing Distributions	2: Two-Variable Categorical Data	1: It Takes Two: Creating and Interpreting Frequency Distributions pp. M4-55–M4-71
					2: Relatively Speaking: Relative Frequency Distribution pp. M4-73–M4-83
		Algebra I MATHia Software	4: Describing Distributions	2: Categorical Data	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
ALGI.35c	Identify possible associations and trends in categorical data.	Algebra I Textbook	4: Describing Distributions	2: Two-Variable Categorical Data	4: Using Marginal Relative Frequency Distributions
					6: Using Conditional Relative Frequency Distributions
		Algebra I MATHia Software	4: Describing Distributions	2: Categorical Data	1: It Takes Two: Creating and Interpreting Frequency Distributions pp. M4-55–M4-71
					2: Relatively Speaking: Relative Frequency Distribution pp. M4-73–M4-83
Algebra I MATHia Software	4: Describing Distributions	2: Categorical Data	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		
ALGI.36	Generate a two-way categorical table in order to find and evaluate solutions to real-world problems.	Algebra I Textbook	4: Describing Distributions	2: Two-Variable Categorical Data	2: Using Marginal Frequency Distributions
					4: Using Marginal Relative Frequency Distributions
					6: Using Conditional Relative Frequency Distributions
					1: It Takes Two: Creating and Interpreting Frequency Distributions pp. M4-55–M4-71
ALGI.36	Generate a two-way categorical table in order to find and evaluate solutions to real-world problems.	Algebra I Textbook	4: Describing Distributions	2: Two-Variable 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
					4: Data Jam: Drawing Conclusions from Data pp. M4-95–M4-104

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
ALGI.36a	Aggregate data from several groups to find an overall association between two categorical variables.	Algebra I Textbook	4: Describing Distributions	2: Two-Variable Categorical Data	1: It Takes Two: Creating and Interpreting Frequency Distributions pp. M4-55–M4-71
					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
ALGI.37	Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes, or as unions, intersections, or complements of other events (“or,” “and,” “not”).	Geometry Textbook	5: Making Informed Decisions	1: Probability	1: What Are the Chances?: Compound Sample Spaces pp. M5-7–M5-25
					2: And?: Compound Probability with And pp. M5-27–M5-40
					3: Or?: Compound Probability with Or pp. M5-41–M5-55
					4: And, Or, and More!: Calculating Compound Probability pp. M5-57–M5-70
ALGI.38	Explain whether two events, A and B, are independent, using two-way tables or tree diagrams.	Geometry Textbook	5: Making Informed Decisions	1: Probability	2: And?: Compound Probability with And pp. M5-27–M5-40
		Geometry MATHia Software	5: Making Informed Decisions	1: Independence and Conditional Probability	1: Independent Events
ALGI.39	Compute the conditional probability of event A given event B, using two- way tables or tree diagrams.	Geometry Textbook	5: Making Informed Decisions	2: Computing Probabilities	2: It All Depends: Conditional Probability pp. M5-99–M5-112
ALGI.40	Recognize and describe the concepts of conditional probability and independence in everyday situations and explain them using everyday language.	Geometry Textbook	5: Making Informed Decisions	2: Computing Probabilities	2: It All Depends: Conditional Probability pp. M5-99–M5-112
		Geometry MATHia Software	5: Making Informed Decisions	2: Computing Probabilities	2: Recognizing Concepts of Conditional Probability
ALGI.41	Explain why the conditional probability of A given B is the fraction of B’s outcomes that also belong to A, and interpret the answer in context.	Geometry Textbook	5: Making Informed Decisions	2: Computing Probabilities	2: It All Depends: Conditional Probability pp. M5-99–M5-112
		Geometry MATHia Software	5: Making Informed Decisions	1: Independence and Conditional Probability	2: Conditional Probability