

Name:

1	Searching for Patterns		
MATHia Unit	MATHia Workspace	Completed	Reflection
Function Overview	Identifying Quantities		
	Introduction to Function Families		
	Evaluating Linear Functions		
	Identifying Parts of Complex Algebraic Expressions		
Sequences	Describing Patterns in Sequences		
	Writing Recursive Formulas		
	Writing Explicit Formulas		
Linear Regression	Exploring Linear Regression		
	Using Linear Regression		
	Interpreting Lines of Best Fit		
	Analyzing Residuals of Lines of Best Fit		

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2	Exploring Constant Change		
MATHia Unit	MATHia Workspace	Completed	Reflection
Linear Function Overview	Writing Sequences as Linear Functions		
	Understanding Linear Functions		
Graphs of Linear Functions	Exploring Graphs of Linear Functions		
	Identifying Key Characteristics of Graphs of Functions		
Modeling with Linear Functions	Multiple Representations of Linear Functions		
	Modeling Linear Functions Using Multiple Representations		
	Comparing Linear Functions in Different Forms		
Linear Equations	Extending Equations to Literal Equations		
	Solving Literal Equations		
Linear Inequalities	Graphing Inequalities		
	Solving Two-Step Linear Inequalities		
	Representing Compound Inequalities		

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2		Exploring Constant Change	
MATHia Unit	MATHia Workspace	Completed	Reflection
Systems of Linear Equations	Representing Systems of Linear Functions		
	Solving Linear Systems Using Linear Combinations		
	Solving Linear Systems Using Any Method		
Linear Inequalities in Two Variables	Exploring Linear Inequalities		
	Graphing Linear Inequalities in Two Variables		
	Systems of Linear Inequalities		
Absolute Value Equations	NEW WORKSPACE Building Absolute Value Functions		
	Graphing Simple Absolute Value Equations Using Number Lines		
	Solving Absolute Value Equations		
	Reasoning About Absolute Value Inequalities		

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2	Exploring Constant Change		
MATHia Unit	MATHia Workspace	Completed	Reflection
Graphs of Piecewise Functions	Introduction to Piecewise Functions		
	Graphing Linear Piecewise Functions		
	Interpreting Piecewise Functions		
	Using Linear Piecewise Functions		
	Analyzing Step Functions		

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3	Investigating Growth and Decay		
MATHia Unit	MATHia Workspace	Completed	Reflection
Exponential Functions	Writing Sequences as Exponential Functions		
	Introduction to Exponential Functions		
	Relating the Domain to Exponential Functions		
Rational Exponents	Using the Properties of Exponents		
	Properties of Rational Exponents		
	Rewriting Expressions with Radical and Rational Exponents		
	Solving Contextual Exponential Equations Using Common Bases		
Linear and Exponential Transformations	Introduction to Transforming Exponential Functions		
	Shifting Vertically		
	Shifting Horizontally		
	Reflecting and Dilating using Graphs		
	Transforming using Tables of Values		
	Using Multiple Transformations		

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Investigating Growth and Decay

MATHia Unit	MATHia Workspace	Completed	Reflection
Compare Linear and Exponential Models	Recognizing Linear and Exponential Models		
	Recognizing Growth and Decay		
	Calculating and Interpreting Average Rate of Change		
	Modeling Equations with a Starting Point of 1.		
	Modeling Equations with a Starting Point Other Than 1		
	Comparing Exponential Functions in Different Forms		
Solving Exponential Equations	Solving Exponential Equations Using a Graph		

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4	Describing Distributions		
MATHia Unit	MATHia Workspace	Completed	Reflection
Numerical Summary Statistics	Determining Appropriate Measures of Center		
	Measuring the Effects of Changing Data Sets		
	Comparing and Interpreting Measures of Center		
	Calculating Standard Deviation		
Categorical Data	Creating Marginal Frequency Distributions		
	Using Marginal Frequency Distributions		
	Creating Marginal Relative Frequency Distributions		
	Using Marginal Relative Frequency Distributions		
	Creating Conditional Relative Frequency Distributions		
	Using Conditional Relative Frequency Distributions		

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5		Maximizing and Minimizing	
MATHia Unit	MATHia Workspace	Completed	Reflection
Modeling Quadratic Functions	Modeling Area as Product of Monomial and Binomial		
	Modeling Area as Product of Two Binomials		
	Interpreting Maximums of Quadratic Models		
	Modeling Projectile Motion		
	Recognizing Key Features of Vertical Motion Graphs		
Linear and Quadratic Transformations	Shifting Vertically		
	Shifting Horizontally		
	Reflecting and Dilating using Graphs		
	Transforming Using Tables of Values		
	Using Multiple Transformations		
Properties of Quadratic Functions	Identifying Properties of Quadratic Functions		
	Sketching Quadratic Functions		
	Comparing Quadratic Functions in Different Forms		

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5		Maximizing and Minimizing	
MATHia Unit	MATHia Workspace	Completed	Reflection
Polynomial Operations	Introduction to Polynomial Arithmetic		
	Operating with Functions on the Coordinate Plane		
	Adding Polynomials		
	Subtracting Polynomials		
	Using a Factor Table to Multiply Binomials		
	Multiplying Binomials		
Quadratic Equation Solving	Making Sense of Roots and Zeros		
	Factoring Trinomials with Coefficients of One		
	Factoring Trinomials with Coefficients Other than One		
	Factoring using Difference of Squares		
	Factoring Quadratic Expressions		
	Solving Quadratic Equations by Factoring		

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5		Maximizing and Minimizing	
MATHia Unit	MATHia Workspace	Completed	Reflection
Quadratic Equation Solving (continued)	Problem Solving Using Factoring		
	Completing the Square		
	Problem Solving Using Completing the Square		
	Deriving the Quadratic Formula		
Forms of Quadratics	Converting Quadratics to General Form		
	Converting Quadratics to Factored Form		
	Converting Quadratics to Vertex Form		
Applications of Quadratics	Using Regression Models		
Function Operations	Adding and Subtracting Linear Functions		
Inverses of Functions	Recognizing Graphs of Inverses		