

Name:

1

Analyzing Structure

MATHia Unit	MATHia Workspace	Completed	Reflection
Searching for Patterns	Exploring and Analyzing Patterns		
	Comparing Familiar Function Representations		
Graphs of Functions	Identifying Key Characteristics of Graphs of Functions		
	Transforming Functions		
Forms of Quadratic Functions	Examining the Shape and Structure of Quadratic Functions		
	Quadratic Modeling		
	Quadratic Equation Solving		
	Quadratic Transformations		
Operations with Complex Numbers	Introduction to Complex Numbers		
	Simplifying Radicals with Negative Radicands		
	Simplifying Powers of i		

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1	Analyzing Structure		
MATHia Unit	MATHia Workspace	Completed	Reflection
Operations with Complex Numbers (continued)	Adding and Subtracting Complex Numbers		
	Multiplying Complex Numbers		
	Solving Quadratic Equations with Complex Roots		
Graphs of Polynomial Functions	Modeling Polynomial Functions		
	Analyzing Polynomial Functions		
	Classifying Polynomial Functions		
	Interpreting Key Features of Graphs in Terms of Quantities		
	Identifying Key Characteristics of Polynomial Functions		
	Identifying Zeros of Polynomials		
	Using Zeros to Sketch a Graph of Polynomial		
	Understanding Average Rate of Change of Polynomial Functions		
	Comparing Polynomial Functions in Different Forms		

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Developing Structural Similarities

MATHia Unit	MATHia Workspace	Completed	Reflection
Polynomial Operations	Using a Factor Table to Multiply Polynomials		
	Multiplying Polynomials		
	Solving Quadratic Equations by Factoring		
	Synthetic Division		
Solving Polynomials	Factoring Higher Order Polynomials		
	Solving Polynomial Functions		
Polynomial Operations	Pascal's Triangle		
	Binomial Theorem		
	Polynomial Regressions		
	Solving Polynomial Inequalities		

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Developing Structural Similarities

MATHia Unit	MATHia Workspace	Completed	Reflection
Rational Functions	Introduction to Rational Functions		
	Modeling Ratios as Rational Functions		
Rational Expressions and Equations	Simplifying Rational Expressions		
	Adding and Subtracting Rational Expressions		
	Multiplying and Dividing Rational Expressions		
	Solving Rational Equations that Result in Linear Equations		
Rational Models	Modeling Rational Functions		
	Using Rational Models		
	Solving Work, Mixture, and Distance Problems		
	Modeling and Solving with Rational Functions		

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3	Inverting Functions		
MATHia Unit	MATHia Workspace	Completed	Reflection
Inverses of Functions	Investigating Inverses of Functions		
	Graphing Square Root Functions		
	Sketching Graphs of Inverses		
	Calculating Inverses of Linear Functions		
Rewriting and Operating with Radicals	Simplifying Radicals		
	Adding and Subtracting Radicals		
	Multiplying Radicals		
	Dividing Radicals		
Radical Expressions with Variables	Simplifying Radicals with Variables		
	Adding and Subtracting Radicals with Variables		
Exponential and Logarithmic Functions	Properties of Exponential Graphs		
	Introduction to Logarithmic Functions		

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Inverting Functions

MATHia Unit	MATHia Workspace	Completed	Reflection
Solve Equations with Base 2, 10, or e	Solving Base 2 and Base 10 Equations		
	Solving Base e Equations		
	Solving Any Base Equations		
Finite Geometric Solutions	Introduction to Finite Geometric Series		
	Problem Solving using Finite Geometric Series		

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4	Investigating Periodic Functions		
MATHia Unit	MATHia Workspace	Completed	Reflection
Graphs of Trigonometric Functions	Understanding the Unit Circle		
	Representing Periodic Behavior		
Pythagorean Identity	Proving the Pythagorean Identity		
	Using the Pythagorean Identity to Determine Sine, Cosine, or Tangent		
Solving Trigonometric Equations	Solving Sine and Cosine Equations (No Type In)		
	Solving Tangent Equations (No Type In)		
	Solving Tangent, Sine, and Cosine Equations (No Type In)		

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5	Relating Data and Decisions		
MATHia Unit	MATHia Workspace	Completed	Reflection
Normal Distributions	Applying the Empirical Rule for Normal Distributions		
	Z-Scores and Percentiles		