

Name:

1	Reasoning with Shapes		
MATHia Unit	MATHia Workspace	Completed	Reflection
From Informal to Formal Geometric Thinking	Introduction to Geometric Figures		
	Naming Lines, Rays, Segments, and Angles		
	Working with Measures of Segments and Angles		
Using Circles to Make Conjectures	Introduction to Circles		
	Exploring the Inscribed Angle Theorem		
	Determining Central and Inscribed Angles in Circles		
Conjectures About Quadrilaterals	Using Circles to Draw Quadrilaterals		
	Angles of an Inscribed Quadrilateral		
Points of Concurrency	Points of Concurrency		
Forms of Proof	Introduction to Proofs		
	Completing Measure Proofs		
	Connecting Steps in Angle Proofs		
	Using Angle Theorems		

Name:

1	Reasoning with Shapes		
MATHia Unit	MATHia Workspace	Completed	Reflection
Lines Cut by a Transversal	Classifying Angles Formed by Transversals		
	Calculating Angle Measures Formed by Transversals		
	Calculating Angles Formed by Multiple Transversals		
Proving Parallel Lines Theorems	Proving Parallel Lines Theorems		
	Proving the Converses of Parallel Lines Theorems		
Interior and Exterior Angles of Polygons	Proving Triangle Theorems		
Proving Triangles Congruent	Proving Triangles Congruent using SAS and SSS		
	Proving Triangles Congruent using AAS and ASA		
	Proving Theorems using Congruent Triangles		
Special Right Triangles	Introduction to Special Right Triangles		
	Calculating the Lengths of Sides of Special Right Triangles		
Solving Problems with Congruence	Using Triangle Theorems		
Angle Relationships Inside and Outside Circles	Determining Interior and Exterior Angles in Circles		

Name:

2	Investigating Proportionality		
MATHia Unit	MATHia Workspace	Completed	Reflection
Dilating Figures to Create Similar Figures	Understanding Similarity		
	Specifying a Sequence of Transformations		
Theorems About Proportionality	Proofs Using Similar Triangles		
Application of Similar Triangles	Calculating Corresponding Parts of Similar Triangles		
Partitioning Segments in Given Ratios	Partitioning Segments in Given Ratios		
	Partitioning Segments Proportionately		
Trigonometric Ratios	Introduction to Trigonometric Ratios		
	Relating Sines and Cosines of Complementary Angles		
	Using One Trigonometric Ratio to Solve Problems		
	Using Multiple Trigonometric Ratios to Solve Problems		
Similarity Relationships in Circles	Relating Arc Length and Radius		
	Determining Chords in Circles		
	Calculating the Area of a Sector		

Name:

2		Investigating Proportionality		
MATHia Unit	MATHia Workspace	Completed	Reflection	
Volume	Calculating Volume of Cylinders			
	Calculating Volume of Pyramids			
	Calculating Volume of Cones			
	Calculating Volume of Spheres			
Surface Area	Introduction to Formulas for the Surface Area of Solids			
	Calculating Surface Area of Solids			

Name:

3 Exploring Functions			
MATHia Unit	MATHia Workspace	Completed	Reflection
Defining Absolute Value Functions and Transformations	Building Absolute Value Functions		
	Vertically Dilating Absolute Value Functions		
	Vertically Translating Absolute Value Functions		
	Horizontally Translating Absolute Value Functions		
	Multiple Transformations of Absolute Value Functions		
Absolute Value Equations and Inequalities	Reasoning About Absolute Value Functions		
	Graphing Simple Absolute Value Equations Using Number Lines		
	Introduction to Absolute Value Equations		
	Solving Absolute Value Equations		
	Reasoning About Absolute Value Inequalities		
Linear Piecewise Functions	Introduction to Piecewise Functions		
	Graphing Linear Piecewise Functions		
	Interpreting Piecewise Functions		
	Using Linear Piecewise Functions		

Name:

3	Exploring Functions		
MATHia Unit	MATHia Workspace	Completed	Reflection
Step Functions	Analyzing Step Functions		
Rational Exponents	Using the Properties of Exponents		
	Properties of Rational Exponents		
	Rewriting Expressions with Radical and Rational Exponents		
Growth and Decay Functions	Recognizing Linear and Exponential Models		
	Calculating and Interpreting Average Rate of Change		
	Recognizing Growth and Decay		
Transformations of Exponential Functions	Introduction to Transforming Exponential Functions		
	Vertically Translating Exponential Functions		
	Horizontally Translating Exponential Functions		
	Reflecting and Dilating Exponential Functions Using Graphs		
	Transforming Exponential Functions Using Tables of Values		
	Multiple Transformations of Exponential Functions		

Name:

3	Exploring Functions		
MATHia Unit	MATHia Workspace	Completed	Reflection
Exploring Quadratic Functions	Introduction to a Quadratic Function		
	Modeling Area as Product of Monomial and Binomial		
	Modeling Area as Product of Two Binomials		
	Modeling Projectile Motion		
	Recognizing Key Features of Vertical Motion Graphs		
	Interpreting Maximums of Quadratic Models		
Key Characteristics of Quadratic Functions	Recognizing Quadratic Functions from Tables		
	Identifying Properties of Quadratic Functions		
Transformations of Quadratic Functions	Vertically Translating Quadratic Functions		
	Horizontally Translating Quadratic Functions		
	Reflecting and Dilating Quadratic Functions using Graphs		
	Transforming Quadratic Functions Using Tables		
	Multiple Transformations of Quadratic Functions		

Name:

3	Exploring Functions		
MATHia Unit	MATHia Workspace	Completed	Reflection
Sketching and Comparing Quadratic Functions	Comparing Increasing Linear, Exponential, and Quadratic Functions		
	Sketching Quadratic Functions		
	Comparing Quadratic Functions in Different Forms		

Name:

4	Seeing Structure		
MATHia Unit	MATHia Workspace	Completed	Reflection
Adding, Subtracting, and Multiplying Polynomials	Introduction to Polynomial Arithmetic		
	Identifying Parts of Complex Algebraic Expressions		
	Operating with Functions on the Coordinate Plane		
	Adding Polynomials		
	Subtracting Polynomials		
	Using a Factor Table to Multiply Binomials		
	Multiplying Binomials		
Representing Solutions to Quadratic Equations	Making Sense of Roots and Zeros		
	Factoring using Difference of Squares		
Solutions to Quadratic Equations in Vertex Form	Using Properties of Equality to Solve Quadratic Equations		
Factoring and Completing the Square	Introduction to Factoring		
	Factoring Trinomials with Coefficients of One		
	Factoring Trinomials with Coefficients Other than One		

Name:

4	Seeing Structure		
MATHia Unit	MATHia Workspace	Completed	Reflection
Factoring and Completing the Square (continued)	Factoring Quadratic Expressions		
	Solving Quadratic Equations by Factoring		
	Problem Solving Using Factoring		
	Completing the Square		
	Problem Solving Using Completing the Square		
The Quadratic Formula	Deriving the Quadratic Formula		
	Solving Quadratic Equations		
Imaginary and Complex Numbers	Introduction to Complex Numbers		
	Simplifying Radicals with Negative Radicands		
	Simplifying Powers of i		
	Adding and Subtracting Complex Numbers		
	Multiplying Complex Numbers		
	Solving Quadratic Equations with Complex Roots		

Name:

4	Seeing Structure		
MATHia Unit	MATHia Workspace	Completed	Reflection
Using Quadratic Functions to Model Data	Using Regression Models		
	Introduction to Inverses		
	Recognizing Graphs of Inverses		
Equation of a Circle	Deriving the Equation of a Circle		
	Determining the Radius and Center of a Circle		
The Pythagorean Identity	Proving the Pythagorean Identity		
	Using the Pythagorean Identity to Determine Sine, Cosine or Tangent		

Name:

5	Making Informed Decisions		
MATHia Unit	MATHia Workspace	Completed	Reflection
Independence and Conditional Probability	Independent Events		
Computing Probabilities	Understanding Frequency Tables		
	Calculating Compound Probabilities from Two-Way Tables		
	Conditional Probability		
	Recognizing Concepts of Conditional Probability		