Name:

CARNEGIE LEARNING

1 Searching for Patterns

MATHia Unit	MATHia Workspace	Completed	Reflection
Understanding Quantities and Their Relationships	Identifying Quantities		
Recognizing Functions and Function Families	Evaluating Linear Functions		
	Identifying Domain and Range		
	Identifying Key Characteristics of Graphs of Functions		
	Introduction to Function Families		
Recognizing Patterns and Sequences	Describing Patterns in Sequences		
	Graphs of Sequences		
Determining Recursive and Explicit Expressions	Writing Recursive Formulas		
	Writing Explicit Formulas		
Least Squares Regression	Exploring Linear Regression		
	Using Linear Regression		
Creating Residual Plots	Analyzing Residuals of Lines of Best Fit		

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2 Exploring Constant Change

MATHia Unit	MATHia Workspace	Completed	Reflection
Connecting Arithmetic Sequences and Linear Functions	Writing Sequences as Linear Functions		
	Understanding Linear Functions		
	Equal Differences Over Equal Intervals		
Multiple Representations of Linear Functions	Multiple Representations of Linear Functions		
	Modeling Linear Relationships Using Multiple Representations		
Transforming Linear Functions	Exploring Graphs of Linear Functions		
	Vertically Translating Linear Functions		
	Vertically Dilating Linear Functions		
	Multiple Transformations of Linear Functions		
Slopes of Parallel and Perpendicular Lines	Introduction to Parallel and Perpendicular Lines		
	Modeling Parallel and Perpendicular Lines		
Comparing Linear Functions in Different Forms	Comparing Linear Functions in Different Forms		
Solving Linear and Literal Equations	Reasoning About Solving Equations		
	Solving Linear Equations in a Variety of Forms		

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2	Exploring Constant Change		
MATHia Unit	**MATHia Workspace**	**Completed**	**Reflection**
Modeling Linear Inequalities	Graphing Inequalities with Rational Numbers		
	Solving Two-Step Linear Inequalities		
	Representing Compound Inequalities		
Introduction to Systems of Linear Equations	Representing Systems of Linear Functions		
	Modeling Linear Systems Using Integers		
	Solving Linear Systems Using Substitution		
Using Linear Combinations to Solve a System of Linear Equations	Solving Linear Systems Using Linear Combinations		
	Solving Linear Systems Using Any Method		
Graphing Linear Inequalities in Two Variables	Exploring Linear Inequalities		
	Graphing Linear Inequalities in Two Variables		
Graphing a System of Linear Inequalities	Systems of Linear Inequalities		
	Interpreting Solutions to Systems of Inequalities		

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2	Exploring Constant Change		
MATHia Unit	**MATHia Workspace**	**Completed**	**Reflection**
Distances on the Coordinate Plane	Deriving the Distance Formula		
	Calculating Distances using the Distance Formula		
	Calculating Perimeter and Area Using the Distance Formula		

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3 Investigating Growth and Decay

MATHia Unit	MATHia Workspace	Completed	Reflection
Geometric Sequences and Exponential Functions	Writing Sequences as Exponential Functions		
Comparing Exponential Functions	Solving Contextual Exponential Relations Using Common Bases		
	Comparing Exponential Functions in Different Forms		
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		
Exponential Equations for Growth and Decay	Recognizing Linear and Exponential Models		
	Calculating and Interpreting Average Rate of Change		
	Recognizing Growth and Decay		

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3 Investigating Growth and Decay

MATHia Unit	MATHia Workspace	Completed	Reflection
Solving Exponential Equations	Modeling Equations with a Starting Point of 1.		
	Modeling Equations with a Starting Point Other Than 1		
	Solving Exponential Equations Using a Graph		
Modeling Using Exponential Functions	Relating the Domain to Exponential Functions		
	Exploring Exponential Regressions		

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4 Describing Distributions

MATHia Unit	MATHia Workspace	Completed	Reflection
Graphically Representing Data	Creating Frequency Plots		
	Describing Data Sets		
Comparing Measures of Center and Spread	Determining Appropriate Measures of Center		
	Measuring the Effects of Changing Data Sets		
	Creating Box Plots and Identifying Outliers		
	Calculating Standard Deviation		
Comparing Data Sets	Comparing and Interpreting Measures of Center		
	Comparing Data Sets Using Center and Spread		
Two-Variable Categorical Data	Creating Marginal Frequency Distributions		
	Using Marginal Frequency Distributions		
	Creating Conditional Relative Frequency Distributions		
	Using Conditional Relative Frequency Distributions		

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5 Analyzing Geometric Functions

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		
Geometric Components of Rigid Motions	Developing Definitions of Rigid Motions		
	Exploring Rigid Motions and Dilations		
Reflectional and Rotational Symmetry	Rotations and Reflections on the Plane		
	Reflectional Symmetry		
	Rotational Symmetry		
Formal Reasoning in Euclidean Geometry	Calculating and Justifying Angle Measures		
	Calculating Angle Measures		
Triangle Congruence Theorems	Introduction to Triangle Congruence		
	Using Triangle Congruence		
From Informal to Formal Geometric Thinking	Introduction to Geometric Figures		

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