EUREKA MATH[™]

ABOUT EUREKA MATH	Created by the nonprofit Great Minds, <i>Eureka Math</i> helps teachers deliver unparalleled math instruction that provides students with a deep understanding and fluency in math. Crafted by teachers and math scholars, the curriculum carefully sequences the mathematical progressions to maximize coherence from Prekindergarten through Precalculus—a principle tested and proven to be essential in students' mastery of math.		
	Teachers and students using <i>Eureka Math</i> find the trademark "Aha!" moments in <i>Eureka Math</i> to be a source of joy and inspiration, lesson after lesson, year after year.		
ALIGNED	<i>Eureka Math</i> is the only curriculum found by EdReports.org to align fully with the Common Core State Standards for Mathematics for all grades, Kindergarten through Grade 8. Great Minds offers detailed analyses which demonstrate how each grade of <i>Eureka Math</i> aligns with specific state standards. Access these free alignment studies at greatminds.org/state-studies.		
DATA	Schools and districts nationwide are experiencing student growth and impressive test scores after using <i>Eureka Math</i> . See their stories and data at greatminds.org/data.		
FULL SUITE OF RESOURCES	As a nonprofit, Great Minds offers the <i>Eureka Math</i> curriculum as PDF downloads for free, noncommercial use. Access the free PDFs at greatminds.org/math/curriculum.		
	The teacher–writers who created the curriculum have also developed essential resources, available only from Great Minds, including the following:		
	Printed material in English and Spanish		
	Digital resources		
	Professional developmentClassroom tools and manipulatives		
	 Classroom tools and manipulatives Teacher support materials 		

• Parent resources

Hawaii Common Core State Standards: Mathematics Correlation to *Eureka Math*™

INTEGRATED I

Eureka Math does not currently offer an integrated curriculum; however, the Integrated I Hawaii Common Core State Standards: Mathematics are fully covered by the *Eureka Math* curriculum. Standards from this pathway will require the use of *Eureka Math* content from multiple high school courses. A detailed analysis of alignment is provided in the table below.

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
Number	Quantities	Cluster: Reason quantitatively	and use units to solve problems.
and Quantity		N-Q.A.1 Use units as a way to understand problems and to guide the solution of multistep problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.	Algebra I M1: Relationships Between Quantities and Reasoning with Equations and Their Graphs
		N-Q.A.2 Define appropriate quantities for the purpose of descriptive modeling.	Algebra I M1 Topic A: Introduction to Functions Studied this Year—Graphing Stories Algebra I M5: A Synthesis of Modeling with Equations and Functions Algebra II M1 Lessons 20–21: Modeling Riverbeds with Polynomials Algebra II M3 Lesson 2: Base 10 and Scientific Notation Algebra II M3 Lesson 9: Logarithms—How Many Digits Do You Need?
		N-Q.A.3 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.	Algebra I M1 Topic A: Introduction to Functions Studied this Year—Graphing Stories Algebra I M5: A Synthesis of Modeling with Equations and Functions

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
Algebra	Seeing Structure in	Cluster: Interpret the structur	re of expressions.
	Expressions	A-SSE.A.1 Interpret expressions that represent a quantity in terms of its context.	
		a. Interpret parts of an expression, such as terms,	Algebra I M4 Lessons 1–2: Multiplying and Factoring Polynomial Expressions
		factors, and coefficients. b. Interpret complicated expressions by viewing one or more of their parts as a single entity.	Algebra I M4 Lessons 3–4: Advanced Factoring Strategies for Quadratic Expressions
			Algebra II M1 Lesson 14: Graphing Factored Polynomials
			Algebra II M1 Lesson 15: Structure in Graphs of Polynomial Functions
			Algebra I M1 Topic D: Creating Equations to Solve Problems Algebra I M3 Topic A: Linear and Exponential Sequences Algebra I M4 Lesson 6: Solving Basic One-Variable Quadratic Equations
			Algebra I M4 Lesson 12: Completing the Square
			Algebra I M4 Lesson 17: Graphing Quadratic Functions from the Standard Form, $f(x) = ax^2 + bx + c$
			Algebra II M3 Topic D: Using Logarithms in Modeling Situations

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
	Creating	Cluster: Create equations that	describe numbers or relationships.
	Equations	A-CED.A.1 Create equations and inequalities in one variable and use them to solve problems.	Algebra I M1 Lesson 18: Equations Involving a Variable Expression in the Denominator Algebra I M1 Topic D: Creating Equations to Solve Problems Algebra I M4 Lesson 6: Solving Basic One-Variable Quadratic Equations Algebra I M4 Lesson 7: Creating and Solving Quadratic Equations in One Variable Algebra I M5 Lesson 6: Modeling a Context from Data Algebra I M5 Lesson 9: Modeling a Context from a Verbal Description Algebra II M1 Lesson 27: Word Problems Leading to Rational
			Equations Algebra II M3 Lesson 7: Bacteria and Exponential Growth
			Algebra II M3 Lesson 26: Percent Rate of Change Algebra II M3 Lesson 27: Modeling with Exponential Functions

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math		
		A-CED.A.2	Algebra I M1 Lesson 5: Two Graphing Stories		
		Create equations in two or more variables to represent	Algebra I M1 Lesson 20: Solution Sets to Equations with Two Variables		
		relationships between quantities; graph equations on coordinate	Algebra I M1 Lesson 23: Solution Sets to Simultaneous Equations		
		axes with labels and scales.	Algebra I M1 Lesson 24: Applications of Systems of Equations and Inequalities		
			Algebra I M1 Lesson 28: Federal Income Tax		
			Algebra I M4 Lesson 9: Graphing Quadratic Functions from Factored Form, $f(x) = a(x - m)(x - n)$		
			Algebra I M4 Lesson 12: Completing the Square		
			Algebra I M4 Lesson 16: Graphing Quadratic Equations from the Vertex Form, $y = a(x - h)^2 + k$		
					Algebra I M4 Lessons 23–24: Modeling with Quadratic Functions
			Algebra I M5: A Synthesis of Modeling with Equations and Functions		
			Algebra II M1 Lesson 1: Successive Differences in Polynomials		
			Algebra II M1 Lessons 16–17: Modeling with Polynomials—An Introduction		
			Algebra II M1 Lessons 20–21: Modeling Riverbeds with Polynomials		
			Algebra II M2 Lesson 12: Ferris Wheels—Using Trigonometric Functions to Model Cyclical Behavior		
			Algebra II M2 Lesson 13: Tides, Sound Waves, and Stock Markets		

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		A-CED.A.3 Represent constraints by equations or inequalities, and by systems of equations and/ or inequalities, and interpret solutions as viable or non-viable options in a modeling context.	Algebra I M1 Lesson 15: Solution Sets of Two or More Equations (or Inequalities) Joined by "And" or "Or" Algebra I M1 Lesson 20: Solution Sets to Equations with Two Variables Algebra I M1 Lesson 24: Applications of Systems of Equations and Inequalities Algebra I M1 Lesson 27: Recursive Challenge Problem—The Double and Add 5 Game Algebra I M3 Topic B: Functions and Their Graphs Algebra I M3 Lesson 24: Piecewise and Step Functions in Context Algebra II M1 Lessons 20–21: Modeling Riverbeds with Polynomials Algebra II M3 Topic E: Geometric Series and Finance
	a quantity of interest, using	Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving	Algebra I M1 Lesson 19: Rearranging Formulas

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	Reasoning with	Cluster: Understand solving equations as a process of reasoning and explain the reasoning.	
	Equations and	A-REI.A.1	Algebra I M1 Lesson 12: Solving Equations
	Inequalities	Explain each step in solving a simple equation as following	Algebra I M1 Lesson 13: Some Potential Dangers when Solving Equations
		from the equality of numbers asserted at the previous step,	Algebra I M1 Lesson 17: Equations Involving Factored Expressions
		starting from the assumption that the original equation has a solution. Construct a viable	Algebra I M1 Lesson 18: Equations Involving a Variable Expression in the Denominator
		argument to justify a solution method.	Algebra II M1 Lesson 28: A Focus on Square Roots
		Cluster: Solve equations and inequalities in one variable.	
		A-REI.B.3 Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.	Algebra I M1: Relationships Between Quantities and Reasoning with Equations and Their Graphs
		Cluster: Solve systems of equa	ations.
		A-REI.C.5 Prove that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions.	Algebra I M1 Lesson 23: Solution Sets to Simultaneous Equations

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		A-REI.C.6 Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.	Algebra I M1 Lessons 22–23: Solution Sets to Simultaneous Equations Algebra I M1 Lesson 24: Applications of Systems of Equations and Inequalities Algebra I M4 Lesson 24: Modeling with Quadratic Functions Algebra II M1 Lesson 30: Linear Systems in Three Variables Algebra II M1 Lesson 31: Systems of Equations
		A-REI.D.10 Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve (which could be a line).	Algebra I M1 Lesson 20: Solution Sets to Equations with Two Variables Algebra II M1 Lesson 36: Overcoming a Third Obstacle to Factoring—What If There Are No Real Number Solutions?
		A-REI.D.11 Explain why the <i>x</i> -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); find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where $f(x)$ and/or $g(x)$ are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.	Algebra I M3 Lesson 16: Graphs Can Solve Equations Too Algebra II M1 Lesson 36: Overcoming a Third Obstacle to Factoring—What If There Are No Real Number Solutions? Algebra II M3 Lesson 24: Solving Exponential Equations

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		A-REI.D.12 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.	Algebra I M1 Lesson 21: Solution Sets to Inequalities with Two Variables Algebra I M1 Lesson 22: Solution Sets to Simultaneous Equations Algebra I M1 Lesson 24: Applications of Systems of Equations and Inequalities
Functions	Interpreting Functions	Cluster: Understand the conce	ept of a function and use function notation.
	Functions	F-IF.A.1 Understand that a function from one set (called the domain) to another set (called the range) assigns to each element of the domain exactly one element of the range. If <i>f</i> is a function and <i>x</i> is an element of its domain, then $f(x)$ denotes the output of <i>f</i> corresponding to the input <i>x</i> . The graph of <i>f</i> is the graph of the equation $y = f(x)$.	Algebra I M3 Lesson 1: Integer Sequences—Should You Believe in Patterns? Algebra I M3 Lesson 12: The Graph of the Equation $y = f(x)$
		F-IF.A.2 Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context.	Algebra I M3: Linear and Exponential Functions

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		F-IF.A.3 Recognize that sequences are functions, sometimes defined recursively, whose domain is a subset of the integers.	Algebra I M3 Lesson 2: Recursive Formulas for Sequences Algebra I M3 Lesson 3: Arithmetic and Geometric Sequences Algebra I M3 Lesson 4: Why Do Banks Pay YOU to Provide Their Services? Algebra II M3 Lesson 26: Percent Rate of Change

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math		
		Cluster: Interpret functions that arise in applications in terms of the con			
		F-IF.B.4	Algebra I M3 Lesson 13: Interpreting the Graph of a Function		
		For a function that models a relationship between two	Algebra I M3 Lesson 14: Linear and Exponential Models— Comparing Growth Rates		
		quantities, interpret key features of graphs and tables in terms	Algebra I M3 Topic D: Using Functions and Graphs to Solve Problems		
		of the quantities, and sketch graphs showing key features given a verbal description of the	Algebra I M4 Lesson 8: Exploring the Symmetry in Graphs of Quadratic Functions		
		relationship.	Algebra I M4 Lesson 9: Graphing Quadratic Functions from Factored Form, $f(x) = a(x - m)(x - n)$		
			Algebra I M4 Lesson 10: Interpreting Quadratic Functions from Graphs and Tables		
			Algebra I M4 Lesson 17: Graphing Quadratic Functions from the Standard Form, $f(x) = ax^2 + bx + c$		
			Algebra I M4 Lesson 22: Comparing Quadratic, Square Root, and Cube Root Functions Represented in Different Ways		
			Algebra I M5: A Synthesis of Modeling with Equations and Functions		
			Algebra II M1 Lessons 16–17: Modeling with Polynomials—An Introduction		
			Algebra II M2 Lesson 12: Ferris Wheels—Using Trigonometric Functions to Model Cyclical Behavior		
			Algebra II M2 Lesson 13: Tides, Sound Waves, and Stock Markets		
			Algebra II M3 Lesson 18: Graphs of Exponential Functions and Logarithmic Functions		
			Algebra II M3 Lesson 20: Transformations of the Graphs of Logarithmic and Exponential Functions		
		ematics Correlation to <i>Eureka Math</i>	Algebra II M3 Lesson 21: The Graph of the Natural Logarithm Function		

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		F-IF.B.5 Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes.	Algebra I M3 Topic B: Functions and Their Graphs Algebra I M4 Lesson 9: Graphing Quadratic Functions from Factored Form, $f(x) = a(x - m)(x - n)$ Algebra I M5 Lesson 1: Analyzing a Graph Algebra I M5 Lesson 4: Modeling a Context from a Graph Algebra II M1 Lessons 16–17: Modeling with Polynomials—An Introduction Algebra II M3 Lesson 17: Graphing the Logarithm Function
		F-IF.B.6 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.	Algebra I M3 Lesson 6: Exponential Growth—U.S. Population and World Population Algebra I M3 Topic D: Using Functions and Graphs to Solve Problems Algebra I M4 Lesson 8: Exploring the Symmetry in Graphs of Quadratic Functions Algebra I M4 Lesson 10: Interpreting Quadratic Functions from Graphs and Tables Algebra I M4 Lesson 17: Graphing Quadratic Functions from the Standard Form, $f(x) = ax^2 + bx + c$ Algebra I M4 Lesson 22: Comparing Quadratic, Square Root, and Cube Root Functions Represented in Different Ways Algebra I M5 Lesson 4: Modeling a Context from a Graph Algebra II M3 Lesson 27: Modeling with Exponential Functions

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math	
		Cluster: Analyze functions using different representations.		
		F-IF.C.7 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.		
		a. Graph linear and quadratic functions and show intercepts, maxima, and minima.	Algebra I M3 Lesson 11: The Graph of a Function Algebra I M3 Lesson 12: The Graph of the Equation $y = f(x)$ Algebra I M3 Lesson 16: Graphs Can Solve Equations Too Algebra I M3 Lesson 19: Four Interesting Transformations of Functions Algebra I M4 Lesson 8: Exploring the Symmetry in Graphs of Quadratic Functions Algebra I M4 Lesson 9: Graphing Quadratic Functions from Factored Form, $f(x) = a(x - m)(x - n)$ Algebra I M4 Lesson 16: Graphing Quadratic Equations from the Vertex Form, $y = a(x - h)^2 + k$ Algebra I M4 Lesson 17: Graphing Quadratic Functions from the Standard Form, $f(x) = ax^2 + bx + c$ Algebra I M4 Topic C: Function Transformations and Modeling Algebra II M1 Lesson 14: Graphing Factored Polynomials	

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		e. Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.	Algebra II M2 Lesson 8: Graphing the Sine and Cosine Functions Algebra II M2 Lesson 11: Transforming the Graph of the Sine Function Algebra II M2 Lesson 12: Ferris Wheels—Using Trigonometric Functions to Model Cyclical Behavior Algebra II M3 Lesson 16: Rational and Irrational Numbers Algebra II M3 Lesson 16: Rational and Irrational Numbers Algebra II M3 Lesson 18: Graphs of Exponential Functions and Logarithmic Functions Algebra II M3 Lesson 20: Transformations of the Graphs of Logarithmic and Exponential Functions Algebra II M3 Lesson 33: The Million Dollar Problem Precalculus and Advanced Topics M4 Lesson 11: Revisiting the Graphs of the Trigonometric Functions
		F-IF.C.9 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	Algebra I M4 Lesson 22: Comparing Quadratic, Square Root, and Cube Root Functions Represented in Different Ways Algebra II M3 Lesson 27: Modeling with Exponential Functions Algebra II M3 Lesson 28: Newton's Law of Cooling, Revisited Algebra II M3 Topic E: Geometric Series and Finance

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math	
	Building Functions	Cluster: Build a function that models a relationship between two quantities.		
	Functions	F-BF.A.1 Write a function that describes a relationship between two quantities.		
		a. Determine an explicit expression, a recursive process, or steps for calculation from a context.	Algebra I M3: Linear and Exponential Functions Algebra I M5: A Synthesis of Modeling with Equations and Functions	
			Algebra II M1 Lesson 1: Successive Differences in Polynomials Algebra II M2 Lesson 12: Ferris Wheels—Using Trigonometric Functions to Model Cyclical Behavior	
			Algebra II M3 Lesson 5: Irrational Exponents—What are $2^{\sqrt{2}}$ and 2^{π} ?	
			Algebra II M3 Lesson 6: Euler's Number, <i>e</i>	
			Algebra II M3 Lesson 7: Bacteria and Exponential Growth	
			Algebra II M3 Lesson 22: Choosing a Model	
			Algebra II M3 Lesson 26: Percent Rate of Change	
			Algebra II M3 Lesson 27: Modeling with Exponential Functions	
		b. Combine standard function types using arithmetic	Algebra II M2 Lesson 12: Ferris Wheels—Using Trigonometric Functions to Model Cyclical Behavior	
		operations.	Algebra II M3 Lesson 28: Newton's Law of Cooling, Revisited	
			Algebra II M3 Lesson 30: Buying a Car	
			Algebra II M3 Lesson 33: The Million Dollar Problem	
			Precalculus and Advanced Topics M4 Lesson 6: Waves, Sinusoids, and Identities	

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		F-BF.A.2 Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations, and translate between the two forms.	Algebra I M3 Topic A: Linear and Exponential Sequences Algebra II M3 Lesson 25: Geometric Sequences and Exponential Growth and Decay Algebra II M3 Lesson 26: Percent Rate of Change Algebra II M3 Lesson 29: The Mathematics Behind a Structured Savings Plan
		Cluster: Build new functions f	rom existing functions.
		F-BF.B.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k f(x)$, $f(kx)$, 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 illustrate an explanation of the effects on the graph using technology.	Algebra I M3 Topic C: Transformations of Functions Algebra I M4 Lesson 19: Translating Graphs of Functions Algebra I M4 Lesson 20: Stretching and Shrinking Graphs of Functions Algebra I M4 Lesson 21: Transformations of the Quadratic Parent Function, $f(x) = x^2$ Algebra II M2 Lesson 11: Transforming the Graph of the Sine Function Algebra II M2 Lesson 12: Ferris Wheels—Using Trigonometric Functions to Model Cyclical Behavior Algebra II M3 Lesson 20: Transformations of the Graphs of Logarithmic and Exponential Functions Precalculus and Advanced Topics M3 Lesson 15: Transforming Rational Functions

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
	Linear, Quadratic,	Cluster: Construct and compa problems.	re linear, quadratic, and exponential models and solve
	and Exponential Models	F-LE.A.1 Distinguish between situations that can be modeled with linear functions and with exponential functions.	
		a. Prove that linear functions grow by equal differences over equal intervals, and that exponential functions grow by equal factors over equal intervals.	Algebra I M3 Lesson 14: Linear and Exponential Models— Comparing Growth Rates
		b. Recognize situations in which one quantity changes at a constant rate per unit interval relative to another.	Algebra I M3 Lesson 5: The Power of Exponential Growth Algebra I M3 Lesson 6: Exponential Growth—U.S. Population and World Population Algebra I M5: A Synthesis of Modeling with Equations and Functions
		c. Recognize situations in which a quantity grows or decays by a constant percent rate per unit interval relative to another.	Algebra I M3 Lesson 5: The Power of Exponential Growth Algebra I M3 Lesson 6: Exponential Growth—U.S. Population and World Population Algebra I M3 Lesson 7: Exponential Decay Algebra I M5: A Synthesis of Modeling with Equations and Functions Algebra II M3 Lesson 27: Modeling with Exponential Functions

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		F-LE.A.2 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 M3: Linear and Exponential Functions Algebra I M5: A Synthesis of Modeling with Equations and Functions Algebra II M3 Lesson 1: Integer Exponents Algebra II M3 Lesson 6: Euler's Number, <i>e</i> Algebra II M3 Lesson 22: Choosing a Model
		F-LE.A.3 Observe using graphs and tables that a quantity increasing exponentially eventually exceeds a quantity increasing linearly, quadratically, or (more generally) as a polynomial function.	Algebra I M3 Lesson 5: The Power of Exponential Growth Algebra I M3 Lesson 6: Exponential Growth—U.S. Population and World Population Algebra I M3 Lesson 14: Linear and Exponential Models— Comparing Growth Rates Algebra I M3 Lesson 21: Comparing Linear and Exponential Models Again
		Cluster: Interpret expressions	s for functions in terms of the situation they model.
		F-LE.B.5 Interpret the parameters in a linear or exponential function in terms of a context.	Algebra I M3 Topic D: Using Functions and Graphs to Solve Problems Algebra II M3 Lesson 23: Bean Counting Algebra II M3 Topic E: Geometric Series and Finance

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
Geometry	Congruence	Cluster: Experiment with tran	sformations in the plane.
		G-CO.A.1 Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.	Geometry M1 Topic A: Basic Constructions Geometry M1 Topic G: Axiomatic Systems
		G-CO.A.2 Represent transformations in the plane using, e.g., transparencies and geometry software; describe transformations as functions that take points in the plane as inputs and give other points as outputs. Compare transformations that preserve distance and angle to those that do not (e.g., translation versus horizontal stretch).	Geometry M1 Topic C: Transformations/Rigid Motions Geometry M2 Lesson 6: Dilations as Transformations of the Plane
		G-CO.A.3 Given a rectangle, parallelogram, trapezoid, or regular polygon, describe the rotations and reflections that carry it onto itself.	Geometry M1 Lesson 15: Rotations, Reflections, and Symmetry Geometry M1 Lesson 21: Correspondence and Transformations

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		G-CO.A.4 Develop definitions of rotations, reflections, and translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.	Geometry M1 Lesson 12: Transformations—The Next Level Geometry M1 Lesson 13: Rotations Geometry M1 Lesson 14: Reflections Geometry M1 Lesson 16: Translations
		G-CO.A.5 Given a geometric figure and a rotation, reflection, or translation, draw the transformed figure using, e.g., graph paper, tracing paper, or geometry software. Specify a sequence of transformations that will carry a given figure onto another.	Geometry M1 Topic C: Transformations/Rigid Motions
		Cluster: Understand congrue	nce in terms of rigid motions.
		G-CO.B.6 Use geometric descriptions of rigid motions to transform figures and to predict the effect of a given rigid motion on a given figure; given two figures, use the definition of congruence in terms of rigid motions to decide if they are congruent.	Geometry M1 Lesson 15: Rotations, Reflections, and Symmetry Geometry M1 Lesson 16: Translations Geometry M1 Lesson 19: Construct and Apply a Sequence of Rigid Motions Geometry M1 Lesson 21: Correspondence and Transformations

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		G-CO.B.7 Use the definition of congruence in terms of rigid motions to show that two triangles are congruent if and only if corresponding pairs of sides and corresponding pairs of angles are congruent.	Geometry M1 Lesson 19: Construct and Apply a Sequence of Rigid Motions Geometry M1 Lesson 20: Applications of Congruence in Terms of Rigid Motions Geometry M1 Lesson 21: Correspondence and Transformations Geometry M1 Topic D: Congruence Geometry M1 Topic G: Axiomatic Systems
		G-CO.B.8 Explain how the criteria for triangle congruence (ASA, SAS, and SSS) follow from the definition of congruence in terms of rigid motions.	Geometry M1 Topic D: Congruence Geometry M1 Topic G: Axiomatic Systems
		Cluster: Make geometric cons	tructions.
		G-CO.D.12 Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.).	Geometry M1 Topic A: Basic Constructions Geometry M1 Topic C: Transformations/Rigid Motions
		G-CO.D.13 Construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle.	Geometry M1 Lessons 1–2: Construct an Equilateral Triangle Geometry M1 Topic F: Advanced Constructions

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	Expressing Geometric	Cluster: Use coordinates to pr	ove simple geometric theorems algebraically.
Pr wi	Properties with Equations	G-GPE.B.4 Use coordinates to prove simple geometric theorems algebraically.	Geometry M4: Connection Algebra and Geometry Through Coordinates Geometry M5 Lesson 19: Equations for Tangent Lines to Circles
		G-GPE.B.5 Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point).	Geometry M4 Lesson 4: Designing a Search Robot to Find a Beacon Geometry M4 Topic B: Perpendicular and Parallel Lines in the Cartesian Plane Geometry M5 Lesson 19: Equations for Tangent Lines to Circles
		G-GPE.B.7 Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula.	Geometry M4: Connecting Algebra and Geometry Through Coordinates

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
Statistics and Probability	Interpreting Categorical and Quantitative Data	Cluster: Summarize, represent, and interpret data on a single count or measurement variable.	
		S-ID.A.1 Represent data with plots on the real number line (dot plots, histograms, and box plots).	Algebra I M2: Descriptive Statistics
		S-ID.A.2 Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets.	Algebra I M2 Lesson 3: Estimating Centers and Interpreting the Mean as a Balance Point Algebra I M2 Topic B: Describing Variability and Comparing Distributions
		S-ID.A.3 Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).	Algebra I M2: Descriptive Statistics

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		Cluster: Summarize, represent, and interpret data on two categorical and quantitative variables.	
		S-ID.B.5 Summarize categorical data for two categories in two-way frequency tables. Interpret relative frequencies in the context of the data (including joint, marginal, and conditional relative frequencies). Recognize possible associations and trends in the data.	Algebra I M2 Topic C: Categorical Data on Two Variables
		S-ID.B.6 Represent data on two quantitative variables on a scatter plot, and describe how the variables are related.	
		a. Fit a function to the data; use functions fitted to data to solve problems in the context of the data.	Algebra I M2 Lessons 12–13: Relationships Between Two Numerical Variables Algebra I M2 Lesson 19: Interpreting Correlation Algebra I M2 Lesson 20: Analyzing Data Collected on Two Variables Algebra I M5 Lesson 7: Modeling a Context from Data Algebra II M1 Lessons 20–21: Modeling Riverbeds with Polynomials Algebra II M2 Lesson 13: Tides, Sound Waves, and Stock Markets

Conceptual Category	Domain	Standards for Mathematical Content	Aligned Components of Eureka Math
		b. Informally assess the fit of a function by plotting and analyzing residuals.	Algebra I M2 Topic D: Numerical Data on Two Variables
		c. Fit a linear function for a scatter plot that suggests a linear association.	Algebra I M2 Lesson 18: Analyzing Residuals Algebra I M2 Lesson 19: Interpreting Correlation Algebra I M2 Lesson 20: Analyzing Data Collected on Two Variables Algebra I M5 Lesson 7: Modeling a Context from Data
		Cluster: Interpret linear models.	
		S-ID.C.7 Interpret the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data.	Algebra I M2 Lesson 14: Modeling Relationships with a Line
		S-ID.C.8 Compute (using technology) and interpret the correlation coefficient of a linear fit.	Algebra I M2 Lesson 19: Interpreting Correlation Algebra I M2 Lesson 20: Analyzing Data Collected on Two Variables Algebra I M5 Lesson 7: Modeling a Context from Data
		S-ID.C.9 Distinguish between correlation and causation.	Algebra I M2 Lesson 11: Conditional Relative Frequencies and Association Algebra I M2 Lesson 19: Interpreting Correlation Algebra I M2 Lesson 20: Analyzing Data Collected on Two Variables