



When the original *Eureka Math*® curriculum was released, it quickly became the most widely used K-5 mathematics curriculum in the country. Now, the Great Minds® teacher-writers have created *Eureka Math*^{2®}, a groundbreaking new curriculum that helps teachers deliver exponentially better math instruction while still providing students with the same deep understanding of and fluency in math. *Eureka Math*² carefully sequences mathematical content to maximize vertical alignment—a principle tested and proven to be essential in students' mastery of math—from kindergarten through high school.

While this innovative new curriculum includes all the trademark Eureka Math aha moments that have been delighting students and teachers for years, it also boasts these exciting new features:

Teachability

Eureka Math² employs streamlined materials that allow teachers to plan more efficiently and focus their energy on delivering high-quality instruction that meets the individual needs of their students. Differentiation suggestions, slide decks, digital interactives, and multiple forms of assessment are just a few of the resources built right into the teacher materials.

Accessibility

Eureka Math² incorporates Universal Design for Learning principles so all learners can access the mathematics and take on challenging math concepts. Student supports are built into the instructional design and are clearly identified in the Teach book. Further, the curriculum carries a focus on readability. By eliminating unnecessary words and using simple, clear sentences, the Eureka Math² teacher-writers have created one of the most readable mathematics curricula on the market. The curriculum's readability and accessibility help all students see themselves as mathematical thinkers and doers who are fully capable of owning their mathematics learning.

Digital Engagement

The digital elements of *Eureka Math*² add to students' engagement with the math. The curriculum provides teachers with digital slides for each lesson. In addition, each grade level includes wordless videos that spark students' interest and curiosity. Students at all levels work through mathematical explorations that help lead to their own mathematical discoveries. Digital lessons and videos provide opportunities for students to wonder, explore, and make sense of mathematics, which contributes to the development of a strong, positive mathematical identity.

Standards for Mathematical Practice

Aligned Components of Eureka Math²

MP.1 Make sense of problems and persevere in solving them.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.2 Reason abstractly and quantitatively.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.3 Construct viable arguments and critique the reasoning of others.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.4 Model with mathematics.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.5 Use appropriate tools strategically.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.6 Attend to precision.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.7 Look for and make use of structure.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.8 Look for and express regularity in repeated reasoning.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.

Number and Quantity

Use properties of rational and irrational numbers

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

N-RN.3

Explain why: the sum or product of two rational numbers is rational; the sum of a rational number and an irrational number is irrational; and the product of a nonzero rational number and an irrational number is irrational.

A1 M4 Lesson 13: Using Square Roots to Solve Quadratic Equations

A1 M4 Lesson 17: Rewriting Square Roots

Number and Quantity

Reason quantitatively and use units to solve problems

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

N-Q.1	A1 M6 Lesson 5: Solar System Models
Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.	
N-Q.2	A1 M4 Lesson 25: Maximizing Area
Define appropriate quantities for the purpose of descriptive modeling.	A1 M6 Lesson 5: Solar System Models

Aligned Components of Eureka Math²

N-Q.3	A1 M6 Lesson 5: Solar System Models
Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.	

Algebra

Interpret the structure of expressions

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

A-SSE.1 Interpret expressions that represent a quantity in terms of its context.	This standard is fully addressed by the lessons aligned to its subsections.
A-SSE.1a Interpret parts of an expression, such as terms, factors, and coefficients.	A1 M4 Lesson 3: Analyzing Functions That Model Projectile Motion
A-SSE.1b Interpret complicated expressions by viewing one or more of their parts as a single entity.	A1 M5 Lesson 8: Exponential Functions A1 M5 Lesson 16: Exponential Growth A1 M5 Lesson 17: Exponential Decay A1 M5 Lesson 18: Modeling Populations A1 M5 Lesson 23: Modeling the Temperature of Objects Cooling Over Time

Aligned Components of Eureka Math²

A-SSE.2

Use the structure of an expression to identify ways to rewrite it.

A1 M1 Lesson 1: The Growing Pattern of Ducks

A1 M1 Lesson 2: The Commutative, Associative, and Distributive Properties

A1 M1 Lesson 3: Polynomial Expressions

A1 M4 Lesson 3: Analyzing Functions That Model Projectile Motion

A1 M4 Topic B: Factoring

A1 M4 Lesson 14: Solving Quadratic Equations by Completing the Square

A1 M4 Lesson 15: Deriving the Quadratic Formula

A1 M5 Lesson 11: Graphing Exponential Functions

A1 M5 Lesson 12: Using Transformations to Graph Exponential Functions (Bases Greater Than 1)

A1 M5 Lesson 18: Modeling Populations

Algebra

Write expressions in equivalent forms to solve problems

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

A-SSE.3

Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.

This standard is fully addressed by the lessons aligned to its subsections.

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A-SSE.3a Factor a quadratic expression to reveal the zeros of the function it defines.	A1 M4 Lesson 10: Zeros of Functions A1 M4 Lesson 11: Graphing Quadratic Functions from Factored Form A1 M4 Lesson 22: A Summary of Graphing Quadratic Functions
A-SSE.3b Complete the square in a quadratic expression to reveal the maximum or minimum value of the function it defines.	A1 M4 Lesson 21: Completing the Square to Graph Quadratic Functions A1 M4 Lesson 22: A Summary of Graphing Quadratic Functions
A-SSE.3c Use the properties of exponents to transform expressions for exponential functions.	A1 M5 Lesson 11: Graphing Exponential Functions A1 M5 Lesson 12: Using Transformations to Graph Exponential Functions (Bases Greater Than 1) A1 M5 Lesson 18: Modeling Populations

Algebra

Perform arithmetic operations on polynomials

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Aligned Components of Eureka Math²

A-APR.1	A1 M1 Lesson 3: Polynomial Expressions
Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.	A1 M1 Lesson 4: Adding and Subtracting Polynomial Expressions A1 M1 Lesson 5: Multiplying Polynomial Expressions A1 M1 Lesson 6: Polynomial Identities

Algebra

Understand the relationship between zeros and factors of polynomials

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Aligned Components of Eureka Math²

A-APR.3

Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial (limit to 1st- and 2nd-degree polynomials).

A1 M4 Lesson 10: Zeros of Functions

A1 M4 Lesson 11: Graphing Quadratic Functions from Factored Form

A1 M4 Lesson 22: A Summary of Graphing Quadratic Functions

Algebra

Create equations that describe numbers or relationships

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

A-CED.1

Create equations and inequalities in one variable and use them to solve problems.

A1 M1 Lesson 7: Printing Presses

A1 M1 Lesson 11: Writing and Solving Equations in One Variable

A1 M1 Lesson 13: Solving Linear Inequalities in One Variable

A1 M1 Lesson 15: Solving and Graphing Compound Inequalities

A1 M4 Lesson 9: Creating and Solving Quadratic Equations in One Variable

Aligned Components of Eureka Math²

A-CED.2	A1 M2 Lesson 1: Solution Sets of Linear Equations in Two Variables
Create equations in two variables	A1 M2 Lesson 2: Graphing Linear Equations in Two Variables
to represent relationships between	A1 M2 Lesson 3: Creating Linear Equations in Two Variables
quantities; graph equations on coordinate axes with labels and scales.	A1 M2 Lesson 6: Applications of Linear Equations and Inequalities
	A1 M4 Lesson 11: Graphing Quadratic Functions from Factored Form
	A1 M4 Lesson 12: Using Symmetry to Graph Quadratic Functions from Standard Form
	A1 M4 Lesson 23: Creating Equations of Quadratic Functions to Model Contexts
	A1 M4 Lesson 25: Maximizing Area
	A1 M4 Lesson 26: Modeling Data with Quadratic Functions
	A1 M4 Lesson 27: Search and Rescue Helicopter
A-CED.3	A1 M1 Lesson 11: Writing and Solving Equations in One Variable
Represent constraints by equations	A1 M1 Lesson 14: Solution Sets of Compound Statements
or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context.	A1 M1 Lesson 15: Solving and Graphing Compound Inequalities
	A1 M2 Lesson 1: Solution Sets of Linear Equations in Two Variables
	A1 M2 Lesson 6: Applications of Linear Equations and Inequalities
	A1 M6 Lesson 5: Solar System Models
A-CED.4	A1 M1 Lesson 12: Rearranging Formulas
Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.	A1 M4 Lesson 13: Using Square Roots to Solve Quadratic Equations

Algebra

Understand solving equations as a process of reasoning and explain the reasoning

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

A-REI.1

Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution.

Construct a viable argument to justify a solution method.

A1 M1 Lesson 9: Solving Linear Equations in One Variable

A1 M1 Lesson 10: Some Potential Dangers When Solving Equations

A1 M1 Lesson 11: Writing and Solving Equations in One Variable

Algebra

Solve equations and inequalities in one variable

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of *Eureka Math*²

A-REI.3

Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

A1 M1 Lesson 7: Printing Presses

A1 M1 Lesson 8: Solution Sets for Equations and Inequalities in One Variable

A1 M1 Lesson 9: Solving Linear Equations in One Variable

A1 M1 Lesson 10: Some Potential Dangers When Solving Equations

A1 M1 Lesson 11: Writing and Solving Equations in One Variable

A1 M1 Lesson 13: Solving Linear Inequalities in One Variable

A1 M1 Lesson 15: Solving and Graphing Compound Inequalities

A1 M1 Lesson 16: Solving Absolute Value Equations

A1 M1 Lesson 17: Solving Absolute Value Inequalities

Aligned Components of Eureka Math²

A-REI.4	This standard is fully addressed by the lessons aligned to its subsections.
Solve quadratic equations in one variable.	
A-REI.4a	A1 M4 Lesson 14: Solving Quadratic Equations by Completing the Square
Use the method of completing the square to transform any quadratic equation in x into an equation of the form $(x-p)^2=q$ that has the same solutions. Derive the quadratic formula from this form.	A1 M4 Lesson 15: Deriving the Quadratic Formula
A-REI.4b	A1 M4 Lesson 5: Solving Equations That Contain Factored Expressions
Solve quadratic equations by inspection	A1 M4 Lesson 6: Solving Quadratic Equations by Factoring: Identities and Guess and Check
(e.g., for $x^2 = 49$), taking square roots, completing the square, the quadratic formula and factoring, as appropriate to the initial form of the equation. Recognize when the quadratic formula gives complex solutions.	A1 M4 Lesson 7: Solving Quadratic Equations by Factoring: Splitting the Linear Term
	A1 M4 Lesson 8: A Summary of Solving Quadratic Equations by Factoring
	A1 M4 Lesson 9: Creating and Solving Quadratic Equations in One Variable
	A1 M4 Lesson 13: Using Square Roots to Solve Quadratic Equations
	A1 M4 Lesson 14: Solving Quadratic Equations by Completing the Square
	A1 M4 Lesson 15: Deriving the Quadratic Formula
	A1 M4 Lesson 16: Solving Quadratic Equations
	A1 M4 Lesson 18: The Quadratic Formula and Zeros of a Function

Algebra

Solve systems of equations

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A-REI.5	A1 M2 Lesson 9: A New Way to Solve Systems
Given a system of two equations in two variables, show and explain why the sum of equivalent forms of the equations produces the same solution as the original system.	
A-REI.6	A1 M2 Lesson 7: Low-Flow Showerhead
Solve systems of linear equations	A1 M2 Lesson 8: Systems of Linear Equations in Two Variables
algebraically, exactly, and graphically while focusing on pairs of linear equations in two variables.	A1 M2 Lesson 9: A New Way to Solve Systems
	A1 M2 Lesson 10: The Elimination Method
	A1 M2 Lesson 11: Applications of Systems of Equations

Algebra

Represent and solve equations and inequalities graphically

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Aligned Components of Eureka Math²

A-REI.10	A1 M2 Lesson 1: Solution Sets of Linear Equations in Two Variables
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).	A1 M2 Lesson 2: Graphing Linear Equations in Two Variables

Aligned Components of Eureka Math²

A-REI.11

Explain why the x-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, quadratic, absolute value, and exponential functions.

A1 M3 Lesson 10: Using Graphs to Solve Equations

A1 M3 Lesson 15: The Absolute Value Function

A1 M4 Lesson 24: Another Look at Systems of Equations

A1 M5 Lesson 13: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1)

A1 M5 Lesson 20: Comparing Growth of Functions

A-REI.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.

A1 M2 Lesson 4: Solution Sets of Linear Inequalities in Two Variables

A1 M2 Lesson 5: Graphing Linear Inequalities in Two Variables

A1 M2 Lesson 12: Solution Sets of Systems of Linear Inequalities

A1 M2 Lesson 13: Graphing Solution Sets of Systems of Linear Inequalities

A1 M2 Lesson 14: Applications of Systems of Linear Inequalities

A1 M6 Lesson 5: Solar System Models

Functions

Understand the concept of a function and use function notation

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

F-IF.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 f is a function and x is an element of its domain, then f(x) denotes the output of f corresponding to the input x. The graph of f is the graph of the equation y = f(x).

A1 M3 Topic A: Functions and Their Graphs

F-IF.2

Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context.

A1 M3 Lesson 1: The Definition of a Function

A1 M3 Lesson 2: Representing, Naming, and Evaluating Functions

A1 M3 Lesson 6: Representations of Functions

A1 M3 Lesson 16: Step Functions

A1 M5 Lesson 1: Exploring Patterns

A1 M5 Lesson 2: The Recursive Challenge

A1 M5 Lesson 3: Recursive Formulas for Sequences

A1 M5 Lesson 4: Explicit Formulas for Sequences

A1 M5 Lesson 7: Sierpinski Triangle

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F-IF.3

Recognize that sequences are functions whose domain is a subset of the integers.

A1 M5 Lesson 1: Exploring Patterns

A1 M5 Lesson 2: The Recursive Challenge

A1 M5 Lesson 3: Recursive Formulas for Sequences

A1 M5 Lesson 4: Explicit Formulas for Sequences

A1 M5 Lesson 5: Arithmetic and Geometric Sequences

A1 M5 Lesson 6: Representations of Arithmetic and Geometric Sequences

Functions

Interpret functions that arise in applications in terms of the context

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

F-IF.4

For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. A1 M3 Lesson 7: Exploring Key Features of a Function and Its Graph

A1 M3 Lesson 8: Identifying Key Features of a Function and Its Graph

A1 M3 Lesson 9: Representing Functions from Verbal Descriptions

A1 M3 Lesson 11: Comparing Functions

A1 M3 Lesson 12: Mars Curiosity Rover

A1 M3 Lesson 13: Modeling Elevation as a Function of Time

A1 M4 Lesson 1: Falling Objects

A1 M4 Lesson 2: Projectile Motion

A1 M4 Lesson 3: Analyzing Functions That Model Projectile Motion

A1 M4 Lesson 11: Graphing Quadratic Functions from Factored Form

A1 M4 Lesson 12: Using Symmetry to Graph Quadratic Functions from Standard Form

Aligned Components of Eureka Math²

F-IF.4 continued	A1 M4 Lesson 21: Completing the Square to Graph Quadratic Functions A1 M4 Lesson 23: Creating Equations of Quadratic Functions to Model Contexts A1 M4 Lesson 25: Maximizing Area
F-IF.5 Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes.	A1 M3 Lesson 3: The Graph of a Function A1 M3 Lesson 13: Modeling Elevation as a Function of Time A1 M3 Lesson 16: Step Functions A1 M4 Lesson 2: Projectile Motion A1 M4 Lesson 3: Analyzing Functions That Model Projectile Motion A1 M4 Lesson 23: Creating Equations of Quadratic Functions to Model Contexts
F-IF.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.	A1 M4 Lesson 1: Falling Objects A1 M4 Lesson 3: Analyzing Functions That Model Projectile Motion A1 M4 Lesson 12: Using Symmetry to Graph Quadratic Functions from Standard Form A1 M5 Lesson 19: Analyzing Exponential Growth A1 M5 Lesson 20: Comparing Growth of Functions A1 M5 Lesson 24: Modeling an Invasive Species Population

Functions

Analyze functions using different representations

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

F-IF.7	This standard is fully addressed by the lessons aligned to its subsections.
Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.	
F-IF.7a	A1 M3 Lesson 4: The Graph of the Equation $y = f(x)$
Graph functions (linear and quadratic)	A1 M3 Lesson 5: Using Pseudocode to Compare Graphs of Functions and Graphs of Equations
and show intercepts, maxima, and minima.	A1 M3 Lesson 6: Representations of Functions
and minima.	A1 M4 Lesson 4: Graphs of Quadratic Functions
	A1 M4 Lesson 11: Graphing Quadratic Functions from Factored Form
	A1 M4 Lesson 12: Using Symmetry to Graph Quadratic Functions from Standard Form
	A1 M4 Lesson 19: Transforming the Graphs of Quadratic Functions
	A1 M4 Lesson 23: Creating Equations of Quadratic Functions to Model Contexts
F-IF.7b	A1 M3 Topic C: Piecewise-Defined Linear Functions
Graph square root and piecewise-defined	A1 M3 Lesson 19: Building New Functions—Translations
functions, including absolute value functions.	A1 M3 Lesson 23: A Summary of Transforming the Graph of a Function

Aligned Components of Eureka Math²

F-IF.8	This standard is fully addressed by the lessons aligned to its subsections.
Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	
F-IF.8a	A1 M4 Lesson 10: Zeros of Functions
Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.	A1 M4 Lesson 11: Graphing Quadratic Functions from Factored Form
	A1 M4 Lesson 22: A Summary of Graphing Quadratic Functions
F-IF.9	A1 M3 Lesson 11: Comparing Functions
Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	A1 M4 Lesson 12: Using Symmetry to Graph Quadratic Functions from Standard Form
	A1 M4 Lesson 21: Completing the Square to Graph Quadratic Functions

Functions

Build a function that models a relationship between two quantities

Mississippi College- and Career-Readiness Standards for Mathematics

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F-BF.1	A1 M6 Lesson 5: Solar System Models
Write a function that describes a relationship between two quantities.	

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F-BF.1a

Determine an explicit expression or steps for calculation from a context.

A1 M3 Lesson 17: Piecewise Linear Functions in Context

A1 M4 Lesson 23: Creating Equations of Quadratic Functions to Model Contexts

A1 M4 Lesson 25: Maximizing Area

A1 M4 Lesson 26: Modeling Data with Quadratic Functions

A1 M4 Lesson 27: Search and Rescue Helicopter

A1 M5 Topic A: Arithmetic and Geometric Sequences

A1 M5 Lesson 8: Exponential Functions

A1 M5 Lesson 15: Calculating Interest

A1 M6 Topic B: Developing Models for Contexts

Functions

Build new functions from existing functions

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

F-BF.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.

A1 M3 Topic D: Transformations of Functions

A1 M4 Lesson 20: Art with Transformations

A1 M5 Lesson 12: Using Transformations to Graph Exponential Functions (Bases Greater Than 1)

A1 M5 Lesson 13: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1)

A1 M5 Lesson 14: Writing Equations for Exponential Functions from Tables or Graphs

A1 M5 Lesson 23: Modeling the Temperature of Objects Cooling Over Time

Functions

Construct and compare linear, quadratic, and exponential models and solve problems

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

F-LE.1	A1 M5 Lesson 15: Calculating Interest
Distinguish between situations that can be modeled with linear functions and	A1 M5 Lesson 18: Modeling Populations
	A1 M5 Lesson 21: World Population Prediction
with exponential functions.	A1 M5 Lesson 22: A Closer Look at Populations
	A1 M5 Lesson 24: Modeling an Invasive Species Population
	A1 M6 Topic A: Modeling Bivariate Quantitative Data
F-LE.1a	A1 M5 Lesson 19: Analyzing Exponential Growth
Prove that linear functions grow by equal differences over equal intervals and that exponential functions grow by equal factors over equal intervals.	
F-LE.1b	A1 M5 Lesson 15: Calculating Interest
Recognize situations in which one quantity changes at a constant rate per unit interval relative to another.	A1 M5 Lesson 18: Modeling Populations
	A1 M5 Lesson 21: World Population Prediction
	A1 M5 Lesson 22: A Closer Look at Populations
	A1 M5 Lesson 24: Modeling an Invasive Species Population

Aligned Components of Eureka Math²

F-LE.1c	A1 M5 Lesson 15: Calculating Interest
Recognize situations in which a quantity grows or decays by a constant percent rate per unit interval relative to another.	A1 M5 Lesson 18: Modeling Populations
	A1 M5 Lesson 21: World Population Prediction
·	A1 M5 Lesson 22: A Closer Look at Populations
	A1 M5 Lesson 24: Modeling an Invasive Species Population
F-LE.2	A1 M5 Lesson 8: Exponential Functions
Construct linear and exponential	A1 M5 Lesson 14: Writing Equations for Exponential Functions from Tables or Graphs
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).	A1 M5 Lesson 16: Exponential Growth
	A1 M5 Lesson 17: Exponential Decay
	A1 M5 Topic D: Comparing Linear and Exponential Models
	A1 M6 Topic B: Developing Models for Contexts

Functions

Interpret expressions for functions in terms of the situation they model

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

F-LE.5	A1 M5 Lesson 18: Modeling Populations
Interpret the parameters in a linear or exponential function in terms of a context.	A1 M5 Lesson 19: Analyzing Exponential Growth A1 M5 Lesson 23: Modeling the Temperature of Objects Cooling Over Time A1 M5 Lesson 24: Modeling an Invasive Species Population

Statistics and Probability

Summarize, represent, and interpret data on a single count or measurement variable

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

S-ID.1 Represent and analyze data with plots on the real number line (dot plots, histograms, and box plots).	A1 M1 Lesson 18: Distributions and Their Shapes A1 M1 Lesson 19: Describing the Center of a Distribution A1 M1 Lesson 20: Using Center to Compare Data Distributions
S-ID.2	A1 M1 Topic D: Univariate Data
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.	
S-ID.3	A1 M1 Topic D: Univariate Data
Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).	

Statistics and Probability

Summarize, represent, and interpret data on two categorical and quantitative variables

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

S-ID.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.	A1 M2 Lesson 22: Summarizing Bivariate Categorical Data with Two-Way Tables A1 M2 Lesson 23: Bivariate Categorical Data and Conditional Relative Frequency Tables A1 M2 Lesson 24: Conditional Relative Frequencies and Association
S-ID.6	A1 M2 Lesson 15: Relationships Between Quantitative Variables
Represent data on two quantitative variables on a scatter plot, and describe how the variables are related.	A1 M2 Lesson 21: Analyzing Bivariate Quantitative Data
S-ID.6a	A1 M2 Lesson 16: Using Lines to Model Bivariate Quantitative Data
Fit a function to the data; use functions	A1 M2 Lesson 17: Modeling Relationships with a Line
fitted to data to solve problems in the context of the data.	A1 M4 Lesson 23: Creating Equations of Quadratic Functions to Model Contexts
	A1 M4 Lesson 26: Modeling Data with Quadratic Functions
	A1 M4 Lesson 27: Search and Rescue Helicopter
	A1 M6 Topic A: Modeling Bivariate Quantitative Data
S-ID.6b	A1 M2 Lesson 18: Calculating and Analyzing Residuals
Informally assess the fit of a function	A1 M2 Lesson 19: Analyzing Residuals
by plotting and analyzing residuals.	A1 M6 Topic A: Modeling Bivariate Quantitative Data

Aligned Components of Eureka Math²

S-ID.6c	A1 M2 Lesson 17: Modeling Relationships with a Line
Fit a linear function for a scatter plot that	A1 M2 Lesson 18: Calculating and Analyzing Residuals
suggests a linear association.	A1 M2 Lesson 20: Interpreting Correlation
	A1 M6 Topic A: Modeling Bivariate Quantitative Data

Statistics and Probability

Interpret linear models

Mississippi College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

S-ID.7	A1 M2 Lesson 16: Using Lines to Model Bivariate Quantitative Data
Interpret the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data.	A1 M2 Lesson 21: Analyzing Bivariate Quantitative Data
S-ID.8	A1 M2 Lesson 20: Interpreting Correlation
Compute (using technology) and interpret the correlation coefficient of a linear fit.	A1 M2 Lesson 21: Analyzing Bivariate Quantitative Data
S-ID.9	A1 M2 Lesson 20: Interpreting Correlation
Distinguish between correlation and causation.	A1 M2 Lesson 21: Analyzing Bivariate Quantitative Data