Mathematics I | Florida's B.E.S.T. Standards for Mathematics Correlation to *Eureka Math²®*

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 Math²®*, 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 Math²* 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 Math²* 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.

Mathematical Thinking and Reasoning Standards	Aligned Components of *Eureka Math²*
MA.K12.MTR.1.1 Actively participate in effortful learning both individually and collectively.	Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.
MA.K12.MTR.2.1 Demonstrate understanding by representing problems in multiple ways.	Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.
MA.K12.MTR.3.1 Complete tasks with mathematical fluency.	Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.
MA.K12.MTR.4.1 Engage in discussions that reflect on the mathematical thinking of self and others.	Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.
MA.K12.MTR.5.1 Use patterns and structure to help understand and connect mathematical concepts.	Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.
MA.K12.MTR.6.1 Assess the reasonableness of solutions.	Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.
MA.K12.MTR.7.1 Apply mathematics to real-world contexts.	Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.

Functions

MA.8.F.1 Define, evaluate and compare functions.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.8.F.1.1 Given a set of ordered pairs, a table, a graph or mapping diagram, determine whether the relationship is a function. Identify the domain and range of the relation.	8 M6 Lesson 1: Motion and Speed 8 M6 Lesson 2: Definition of a Function 8 M6 Lesson 4: More Examples of Functions 8 M6 Lesson 5: Graphs of Functions and Equations Math 1 M3 Topic A: Functions and Their Graphs

Data Analysis and Probability

MA.8.DP.1 Represent and investigate numerical bivariate data.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.8.DP.1.3 Given a scatter plot with a linear association, informally fit a straight line.	Math 1 M2 Lesson 23: Using Lines to Model Bivariate Quantitative Data Math 1 M2 Lesson 24: Modeling Relationships with a Line Math 1 M2 Lesson 25: Calculating and Analyzing Residuals Math 1 M2 Lesson 27: Interpreting Correlation

Algebraic Reasoning

MA.912.AR.1 Interpret and rewrite algebraic expressions and equations in equivalent forms.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.1.1 Identify and interpret parts of an equation or expression that represent a quantity in terms of a mathematical or real-world context, including viewing one or more of its parts as a single entity.	Math 1 M1 Lesson 4: Interpreting Linear Expressions Math 1 M5 Lesson 7: Exponential Functions Math 1 M5 Lesson 14: Exponential Growth Math 1 M5 Lesson 15: Exponential Decay Math 1 M5 Lesson 16: Modeling Populations Math 1 M5 Lesson 22: Modeling the Temperature of Objects Cooling Over Time
MA.912.AR.1.2 Rearrange equations or formulas to isolate a quantity of interest.	Math 1 M1 Lesson 10: Rearranging Formulas

Algebraic Reasoning

MA.912.AR.2 Write, solve and graph linear equations, functions and inequalities in one and two variables.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.2.1 Given a real-world context, write and solve one-variable multi-step linear equations.	Math 1 M1 Lesson 5: Printing Presses Math 1 M1 Lesson 6: Solution Sets of Equations and Inequalities in One Variable Math 1 M1 Lesson 7: Solving Linear Equations in One Variable Math 1 M1 Lesson 8: Some Potential Dangers When Solving Equations Math 1 M1 Lesson 9: Writing and Solving Equations in One Variable

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.2.2 Write a linear two-variable equation to represent the relationship between two quantities from a graph, a written description or a table of values within a mathematical or real-world context.	Math 1 M2 Lesson 1: Solution Sets of Linear Equations in Two Variables Math 1 M2 Lesson 3: Creating Linear Equations in Two Variables Math 1 M2 Lesson 6: Proving the Parallel Criterion Math 1 M2 Lesson 7: Equations of Parallel and Perpendicular Lines Math 1 M4 Lesson 5: Proving the Perpendicular Criterion
MA.912.AR.2.3 Write a linear two-variable equation for a line that is parallel or perpendicular to a given line and goes through a given point.	Math 1 M2 Lesson 6: Proving the Parallel Criterion Math 1 M2 Lesson 7: Equations of Parallel and Perpendicular Lines Math 1 M2 Lesson 20: Proving Geometric Theorems Algebraically Math 1 M4 Lesson 5: Proving the Perpendicular Criterion
MA.912.AR.2.4 Given a table, equation or written description of a linear function, graph that function, and determine and interpret its key features.	Math 1 M3 Topic A: Functions and Their Graphs Math 1 M3 Lesson 9: Identifying Key Features of a Function and Its Graph Math 1 M3 Lesson 11: Comparing Functions
MA.912.AR.2.5 Solve and graph mathematical and real-world problems that are modeled with linear functions. Interpret key features and determine constraints in terms of the context.	Math 1 M3 Lesson 2: Interpreting and Using Function Notation Math 1 M3 Lesson 3: Representing, Naming, and Evaluating Functions Math 1 M3 Lesson 4: The Graph of a Function Math 1 M3 Lesson 7: Representations of Functions Math 1 M3 Lesson 9: Identifying Key Features of a Function and Its Graph Math 1 M3 Lesson 11: Comparing Functions

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.2.6 Given a mathematical or real-world context, write and solve one-variable linear inequalities, including compound inequalities. Represent solutions algebraically or graphically.	Math 1 M1 Lesson 6: Solution Sets of Equations and Inequalities in One Variable Math 1 M1 Lesson 11: Solving Linear Inequalities in One Variable Math 1 M1 Lesson 12: Solution Sets of Compound Statements Math 1 M1 Lesson 13: Solving and Graphing Compound Inequalities Math 1 M1 Lesson 15: Solving Absolute Value Inequalities
MA.912.AR.2.7 Write two-variable linear inequalities to represent relationships between quantities from a graph or a written description within a mathematical or real-world context.	Math 1 M2 Lesson 13: Solution Sets of Linear Inequalities in Two Variables Math 1 M2 Lesson 14: Graphing Linear Inequalities in Two Variables Math 1 M2 Lesson 18: Applications of Systems of Linear Inequalities Math 1 M6 Lesson 10: Designing a Fundraiser
MA.912.AR.2.8 Given a mathematical or real-world context, graph the solution set to a two-variable linear inequality.	Math 1 M2 Lesson 13: Solution Sets of Linear Inequalities in Two Variables Math 1 M2 Lesson 14: Graphing Linear Inequalities in Two Variables

Algebraic Reasoning

MA.912.AR.3 Write, solve and graph quadratic equations, functions and inequalities in one and two variables.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.3.4 Write a quadratic function to represent the relationship between two quantities from a graph, a written description or a table of values within a mathematical or real-world context.	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 A1 M6 Lesson 7: World Record Doughnut
MA.912.AR.3.5 Given the x-intercepts and another point on the graph of a quadratic function, write the equation for the function.	A1 M4 Lesson 11: Graphing Quadratic Functions from Factored Form A1 M4 Lesson 12: Using Symmetry to Graph Quadratic Functions from Standard Form
MA.912.AR.3.7 Given a table, equation or written description of a quadratic function, graph that function, and determine and interpret its key features.	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 A1 M4 Lesson 25: Maximizing Area A1 M4 Lesson 26: Modeling Data with Quadratic Functions A1 M4 Lesson 27: Search and Rescue Helicopter

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.3.8 Solve and graph mathematical and real-world problems that are modeled with quadratic functions. Interpret key features and determine constraints in terms of the context.	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 A1 M4 Lesson 18: The Quadratic Formula and Zeros of a Function 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 A1 M4 Lesson 26: Modeling Data with Quadratic Functions A1 M4 Lesson 27: Search and Rescue Helicopter

Algebraic Reasoning

MA.912.AR.4 Write, solve and graph absolute value equations, functions and inequalities in one and two variables.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.4.1 Given a mathematical or real-world context, write and solve one-variable absolute value equations.	Math 1 M1 Lesson 14: Solving Absolute Value Equations Math 1 M1 Lesson 16: Applying Absolute Value
MA.912.AR.4.2 Given a mathematical or real-world context, write and solve one-variable absolute value inequalities. Represent solutions algebraically or graphically.	Math 1 M1 Lesson 15: Solving Absolute Value Inequalities Math 1 M1 Lesson 16: Applying Absolute Value

Algebraic Reasoning

MA.912.AR.5 Write, solve and graph exponential and logarithmic equations and functions in one and two variables.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.5.3 Given a mathematical or real-world context, classify an exponential function as representing growth or decay.	Math 1 M5 Topic C: Exponential Growth and Decay Math 1 M5 Lesson 20: World Population Prediction Math 1 M5 Lesson 21: A Closer Look at Populations
MA.912.AR.5.4 Write an exponential function to represent a relationship between two quantities from a graph, a written description or a table of values within a mathematical or real-world context.	Math 1 M5 Lesson 7: Exponential Functions Math 1 M5 Lesson 12: Writing Equations for Exponential Functions from Tables or Graphs Math 1 M5 Lesson 14: Exponential Growth Math 1 M5 Lesson 15: Exponential Decay Math 1 M5 Topic D: Comparing Linear and Exponential Models Math 1 M6 Lesson 8: The Deal
MA.912.AR.5.6 Given a table, equation or written description of an exponential function, graph that function and determine its key features.	Math 1 M5 Lesson 8: Graphing Exponential Functions Math 1 M5 Lesson 9: Using Transformations to Graph Exponential Functions (Bases Greater Than 1) Math 1 M5 Lesson 10: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1)

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.5.7 Solve and graph mathematical and real-world problems that are modeled with exponential functions. Interpret key features and determine domain constraints in terms of the context.	Math 1 M5 Topic A: Arithmetic and Geometric Sequences Math 1 M5 Lesson 7: Exponential Functions Math 1 M5 Lesson 8: Graphing Exponential Functions Math 1 M5 Lesson 9: Using Transformations to Graph Exponential Functions (Bases Greater Than 1) Math 1 M5 Lesson 10: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1) Math 1 M5 Lesson 12: Writing Equations for Exponential Functions from Tables or Graphs Math 1 M5 Topic C: Exponential Growth and Decay Math 1 M5 Topic D: Comparing Linear and Exponential Models Math 1 M6 Lesson 8: The Deal

Algebraic Reasoning

MA.912.AR.9 Write and solve a system of two- and three-variable equations and inequalities that describe quantities or relationships.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.9.1 Given a mathematical or real-world context, write and solve a system of two-variable linear equations algebraically or graphically.	Math 1 M2 Topic B: Systems of Linear Equations in Two Variables
MA.912.AR.9.3 Given a mathematical or real-world context, solve a system consisting of two-variable linear or non-linear equations algebraically or graphically.	Math 1 M2 Topic B: Systems of Linear Equations in Two Variables Math 1 M3 Lesson 10: Using Graphs to Solve Equations Math 1 M5 Lesson 11: Solving Equations Containing Exponential Expressions

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.9.4 Graph the solution set of a system of two-variable linear inequalities.	Math 1 M2 Lesson 16: Solution Sets of Systems of Linear Inequalities Math 1 M2 Lesson 17: Graphing Solution Sets of Systems of Linear Inequalities Math 1 M2 Lesson 18: Applications of Systems of Linear Inequalities Math 1 M6 Lesson 10: Designing a Fundraiser
MA.912.AR.9.5 Graph the solution set of a system of two-variable inequalities.	Math 1 M2 Lesson 16: Solution Sets of Systems of Linear Inequalities Math 1 M2 Lesson 17: Graphing Solution Sets of Systems of Linear Inequalities Math 1 M2 Lesson 18: Applications of Systems of Linear Inequalities Math 1 M6 Lesson 10: Designing a Fundraiser
MA.912.AR.9.6 Given a real-world context, represent constraints as systems of linear equations or inequalities. Interpret solutions to problems as viable or non-viable options.	Math 1 M2 Lesson 8: Low-Flow Showerhead Math 1 M2 Lesson 12: Applications of Systems of Equations Math 1 M2 Lesson 17: Graphing Solution Sets of Systems of Linear Inequalities Math 1 M2 Lesson 18: Applications of Systems of Linear Inequalities Math 1 M6 Lesson 10: Designing a Fundraiser
MA.912.AR.9.7 Given a real-world context, represent constraints as systems of linear and non-linear equations or inequalities. Interpret solutions to problems as viable or non-viable options.	A1 M4 Lesson 24: Another Look at Systems of Equations Math 1 M2 Lesson 8: Low-Flow Showerhead Math 1 M2 Lesson 12: Applications of Systems of Equations Math 1 M2 Lesson 17: Graphing Solution Sets of Systems of Linear Inequalities Math 1 M2 Lesson 18: Applications of Systems of Linear Inequalities Math 1 M6 Lesson 10: Designing a Fundraiser

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.9.8 Solve real-world problems involving linear programming in two variables.	Math 1 M2 Lesson 17: Graphing Solution Sets of Systems of Linear Inequalities Math 1 M2 Lesson 18: Applications of Systems of Linear Inequalities Math 1 M6 Lesson 10: Designing a Fundraiser
MA.912.AR.9.10 Solve and graph mathematical and real-world problems that are modeled with piecewise functions. Interpret key features and determine constraints in terms of the context.	A1 M3 Lesson 14: Piecewise Linear Functions A1 M3 Lesson 15: The Absolute Value Function A1 M3 Lesson 16: Step Functions A1 M3 Lesson 17: Piecewise Linear Functions in Context Math 1 M3 Lesson 12: Sketching Graphs of Functions from Verbal Descriptions Math 1 M3 Lesson 13: Modeling Elevation as a Function of Time

Algebraic Reasoning

MA.912.AR.10 Solve problems involving sequences and series.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.AR.10.1 Given a mathematical or real-world context, write and solve problems involving arithmetic sequences.	Math 1 M4 Lesson 26: Sierpinski Triangle Math 1 M5 Lesson 5: Arithmetic and Geometric Sequences Math 1 M5 Lesson 6: Representations of Arithmetic and Geometric Sequences Math 1 M6 Lesson 8: The Deal
MA.912.AR.10.2 Given a mathematical or real-world context, write and solve problems involving geometric sequences.	Math 1 M4 Lesson 26: Sierpinski Triangle Math 1 M5 Lesson 5: Arithmetic and Geometric Sequences Math 1 M5 Lesson 6: Representations of Arithmetic and Geometric Sequences Math 1 M6 Lesson 8: The Deal

Functions

MA.912.F.1 Understand, compare and analyze properties of functions.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.F.1.1 Given an equation or graph that defines a function, determine the function type. Given an input-output table, determine a function type that could represent it.	Math 1 M3 Lesson 7: Representations of Functions Math 1 M5 Topic A: Arithmetic and Geometric Sequences Math 1 M5 Lesson 7: Exponential Functions Math 1 M5 Lesson 13: Calculating Interest Math 1 M5 Lesson 16: Modeling Populations Math 1 M6 Lesson 11: A Vanishing Sea
MA.912.F.1.2 Given a function represented in function notation, evaluate the function for an input in its domain. For a real-world context, interpret the output.	Math 1 M3 Lesson 1: The Definition of a Function Math 1 M3 Lesson 2: Interpreting and Using Function Notation Math 1 M3 Lesson 3: Representing, Naming, and Evaluating Functions Math 1 M3 Lesson 7: Representations of Functions Math 1 M5 Lesson 1: Exploring Patterns Math 1 M5 Lesson 2: The Recursive Challenge Math 1 M5 Lesson 3: Recursive Formulas for Sequences Math 1 M5 Lesson 4: Explicit Formulas for Sequences
MA.912.F.1.3 Calculate and interpret the average rate of change of a real-world situation represented graphically, algebraically or in a table over a specified interval.	Math 1 M5 Lesson 17: Average Rate of Change Math 1 M5 Lesson 18: Analyzing Exponential Growth Math 1 M5 Lesson 19: Comparing Growth of Functions Math 1 M5 Lesson 23: Modeling an Invasive Species Population

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.F.1.5 Compare key features of linear functions each represented algebraically, graphically, in tables or written descriptions.	8 M6 Lesson 7: Interpreting Rate of Change and Initial Value 8 M6 Lesson 8: Comparing Functions Math 1 M3 Lesson 9: Identifying Key Features of a Function and Its Graph Math 1 M3 Lesson 11: Comparing Functions
MA.912.F.1.6 Compare key features of linear and nonlinear functions each represented algebraically, graphically, in tables or written descriptions.	Math 1 M3 Lesson 11: Comparing Functions Math 1 M5 Lesson 13: Calculating Interest Math 1 M5 Lesson 16: Modeling Populations Math 1 M5 Lesson 19: Comparing Growth of Functions Math 1 M5 Lesson 20: World Population Prediction Math 1 M5 Lesson 21: A Closer Look at Populations Math 1 M5 Lesson 23: Modeling an Invasive Species Population
MA.912.F.1.7 Compare key features of two functions each represented algebraically, graphically, in tables or written descriptions.	Math 1 M3 Lesson 11: Comparing Functions

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.F.1.8 Determine whether a linear, quadratic or exponential function best models a given real-world situation.	Math 1 M5 Lesson 13: Calculating Interest Math 1 M5 Lesson 16: Modeling Populations Math 1 M5 Lesson 20: World Population Prediction Math 1 M5 Lesson 21: A Closer Look at Populations Math 1 M5 Lesson 23: Modeling an Invasive Species Population Math 1 M6 Lesson 2: Using Residual Plots to Select Models for Data Math 1 M6 Lesson 3: Analyzing Paint Splatters Math 1 M6 Lesson 11: A Vanishing Sea *Supplemental material is necessary to address quadratic models.*
MA.912.F.1.9 Determine whether a function is even, odd or neither when represented algebraically, graphically or in a table.	*Supplemental material is necessary to address this standard.*

Functions

MA.912.F.2 Identify and describe the effects of transformations on functions. Create new functions given transformations.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.F.2.1 Identify the effect on the graph or table of a given function after replacing $f(x)$ by $f(x) + k$, $kf(x)$, $f(kx)$ and $f(x + k)$ for specific values of k.	Math 1 M3 Topic D: Transformations of Functions Math 1 M5 Lesson 9: Using Transformations to Graph Exponential Functions (Bases Greater Than 1) Math 1 M5 Lesson 10: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1) Math 1 M5 Lesson 12: Writing Equations for Exponential Functions from Tables or Graphs

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.F.2.2 Identify the effect on the graph of a given function of two or more transformations defined by adding a real number to the x- or y-values or multiplying the x- or y-values by a real number.	Math 1 M3 Topic D: Transformations of Functions Math 1 M5 Lesson 9: Using Transformations to Graph Exponential Functions (Bases Greater Than 1) Math 1 M5 Lesson 10: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1) Math 1 M5 Lesson 12: Writing Equations for Exponential Functions from Tables or Graphs
MA.912.F.2.3 Given the graph or table of $f(x)$ and the graph or table of $f(x) + k$, $kf(x)$, $f(kx)$ and $f(x + k)$, state the type of transformation and find the value of the real number k.	Math 1 M3 Topic D: Transformations of Functions Math 1 M5 Lesson 9: Using Transformations to Graph Exponential Functions (Bases Greater Than 1) Math 1 M5 Lesson 10: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1) Math 1 M5 Lesson 12: Writing Equations for Exponential Functions from Tables or Graphs
MA.912.F.2.4 Given the graph or table of values of two or more transformations of a function, state the type of transformation and find the values of the real number that defines the transformation.	Math 1 M3 Topic D: Transformations of Functions Math 1 M5 Lesson 9: Using Transformations to Graph Exponential Functions (Bases Greater Than 1) Math 1 M5 Lesson 10: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1) Math 1 M5 Lesson 12: Writing Equations for Exponential Functions from Tables or Graphs
MA.912.F.2.5 Given a table, equation or graph that represents a function, create a corresponding table, equation or graph of the transformed function defined by adding a real number to the x- or y-values or multiplying the x- or y-values by a real number.	Math 1 M3 Topic D: Transformations of Functions Math 1 M5 Lesson 9: Using Transformations to Graph Exponential Functions (Bases Greater Than 1) Math 1 M5 Lesson 10: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1) Math 1 M5 Lesson 12: Writing Equations for Exponential Functions from Tables or Graphs

Functions

MA.912.F.3 Create new functions from existing functions.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.F.3.1 Given a mathematical or real-world context, combine two functions, limited to linear and quadratic, using arithmetic operations. When appropriate, include domain restrictions for the new function.	*Supplemental material is necessary to address this standard.*
MA.912.F.3.2 Given a mathematical or real-world context, combine two or more functions, limited to linear, quadratic, exponential and polynomial, using arithmetic operations. When appropriate, include domain restrictions for the new function.	Math 1 M5 Lesson 22: Modeling the Temperature of Objects Cooling Over Time *Supplemental material is necessary to fully address this standard.*
MA.912.F.3.3 Solve mathematical and real-world problems involving functions that have been combined using arithmetic operations.	*Supplemental material is necessary to address this standard.*

Financial Literacy

MA.912.FL.3 Describe the advantages and disadvantages of short-term and long-term purchases.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.FL.3.1 Compare simple, compound and continuously compounded interest over time.	Math 1 M5 Lesson 13: Calculating Interest Math 1 M5 Lesson 18: Analyzing Exponential Growth *Supplemental material is necessary to address continuously compounded interest.*
MA.912.FL.3.2 Solve real-world problems involving simple, compound and continuously compounded interest.	Math 1 M5 Lesson 13: Calculating Interest Math 1 M5 Lesson 18: Analyzing Exponential Growth *Supplemental material is necessary to address continuously compounded interest.*
MA.912.FL.3.4 Explain the relationship between simple interest and linear growth. Explain the relationship between compound interest and exponential growth and the relationship between continuously compounded interest and exponential growth.	Math 1 M5 Lesson 13: Calculating Interest Math 1 M5 Lesson 18: Analyzing Exponential Growth *Supplemental material is necessary to address continuously compounded interest.*

Geometric Reasoning

MA.912.GR.1 Prove and apply geometric theorems to solve problems.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.GR.1.2 Prove triangle congruence or similarity using Side-Side-Side, Side-Angle-Side, Angle-Side-Angle, Angle-Angle-Side, Angle-Angle and Hypotenuse-Leg.	Math 1 M4 Lesson 18: Side–Angle–Side Math 1 M4 Lesson 19: Angle–Angle–Angle and Side–Side–Side Math 1 M4 Lesson 20: Angle–Side–Angle Math 1 M4 Lesson 21: Side–Side–Angle and Hypotenuse–Leg

Geometric Reasoning

MA.912.GR.2 Apply properties of transformations to describe congruence or similarity.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.GR.2.1 Given a preimage and image, describe the transformation and represent the transformation algebraically using coordinates.	Math 1 M4 Lesson 2: Translations of the Coordinate Plane Math 1 M4 Lesson 3: Rotations of the Coordinate Plane Math 1 M4 Lesson 4: Reflections of the Coordinate Plane Math 1 M4 Lesson 5: Proving the Perpendicular Criterion Math 1 M4 Lesson 13: Sequences of Basic Rigid Motions Math 1 M4 Lesson 14: Transformations of the Coordinate Plane Math 1 M4 Lesson 15: Designs with Rigid Motions Math 1 M4 Lesson 16: Congruent Figures
MA.912.GR.2.2 Identify transformations that do or do not preserve distance.	Math 1 M4 Lesson 1: Geometric Transformations Math 1 M4 Lesson 2: Translations of the Coordinate Plane Math 1 M4 Lesson 3: Rotations of the Coordinate Plane Math 1 M4 Lesson 4: Reflections of the Coordinate Plane

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.GR.2.3 Identify a sequence of transformations that will map a given figure onto itself or onto another congruent or similar figure.	Math 1 M4 Lesson 12: Reflective Symmetry and Rotational Symmetry Math 1 M4 Lesson 13: Sequences of Basic Rigid Motions Math 1 M4 Lesson 14: Transformations of the Coordinate Plane
MA.912.GR.2.4 Determine symmetries of reflection, symmetries of rotation and symmetries of translation of a geometric figure.	Math 1 M4 Lesson 12: Reflective Symmetry and Rotational Symmetry Math 1 M4 Lesson 15: Designs with Rigid Motions *Supplemental material is necessary to address symmetries of translation.*
MA.912.GR.2.5 Given a geometric figure and a sequence of transformations, draw the transformed figure on a coordinate plane.	Math 1 M4 Lesson 2: Translations of the Coordinate Plane Math 1 M4 Lesson 3: Rotations of the Coordinate Plane Math 1 M4 Lesson 4: Reflections of the Coordinate Plane Math 1 M4 Lesson 5: Proving the Perpendicular Criterion Math 1 M4 Lesson 8: Reflections of the Plane Math 1 M4 Lesson 9: Rotations of the Plane Math 1 M4 Lesson 10: Rotations of the Plane with Bisected and Copied Angles Math 1 M4 Lesson 11: Translations of the Plane Math 1 M4 Lesson 13: Sequences of Basic Rigid Motions Math 1 M4 Lesson 14: Transformations of the Coordinate Plane Math 1 M4 Lesson 15: Designs with Rigid Motions Math 1 M4 Lesson 16: Congruent Figures

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.GR.2.6 Apply rigid transformations to map one figure onto another to justify that the two figures are congruent.	Math 1 M4 Lesson 16: Congruent Figures
MA.912.GR.2.7 Justify the criteria for triangle congruence using the definition of congruence in terms of rigid transformations.	Math 1 M4 Lesson 17: Congruent Triangles Math 1 M4 Lesson 18: Side–Angle–Side Math 1 M4 Lesson 19: Angle–Angle–Angle and Side–Side–Side Math 1 M4 Lesson 20: Angle–Side–Angle Math 1 M4 Lesson 21: Side–Side–Angle and Hypotenuse–Leg

Geometric Reasoning

MA.912.GR.3 Use coordinate geometry to solve problems or prove relationships.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.GR.3.2 Given a mathematical context, use coordinate geometry to classify or justify definitions, properties and theorems involving circles, triangles or quadrilaterals.	Math 1 M2 Lesson 6: Proving the Parallel Criterion Math 1 M2 Lesson 7: Equations of Parallel and Perpendicular Lines Math 1 M2 Lesson 19: The Distance Formula Math 1 M2 Lesson 20: Proving Geometric Theorems Algebraically *Supplemental material is necessary to address definitions, properties, and theorems involving circles.*

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.GR.3.3 Use coordinate geometry to solve mathematical and real-world geometric problems involving lines, circles, triangles and quadrilaterals.	Math 1 M2 Lesson 20: Proving Geometric Theorems Algebraically *Supplemental material is necessary to address solving problems involving circles.*
MA.912.GR.3.4 Use coordinate geometry to solve mathematical and real-world problems on the coordinate plane involving perimeter or area of polygons.	Math 1 M2 Lesson 21: Using Coordinates to Determine Perimeters and Areas of Figures Math 1 M6 Lesson 11: A Vanishing Sea *Supplemental material is necessary to fully address this standard.*

Geometric Reasoning

MA.912.GR.4 Use geometric measurement and dimensions to solve problems.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.GR.4.4 Solve mathematical and real-world problems involving the area of two-dimensional figures.	Math 1 M2 Lesson 21: Using Coordinates to Determine Perimeters and Areas of Figures Math 1 M6 Lesson 11: A Vanishing Sea *Supplemental material is necessary to fully address this standard.*

Geometric Reasoning

MA.912.GR.5 Make formal geometric constructions with a variety of tools and methods.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.GR.5.1 Construct a copy of a segment or an angle.	Math 1 M4 Lesson 6: Compass and Straightedge Constructions Math 1 M4 Lesson 7: Constructing Perpendicular Lines Math 1 M4 Lesson 8: Reflections of the Plane Math 1 M4 Lesson 10: Rotations of the Plane with Bisected and Copied Angles Math 1 M4 Lesson 11: Translations of the Plane Math 1 M4 Lesson 22: Validating Triangle and Angle Constructions Math 1 M4 Lesson 23: Validating Perpendicular Line Constructions Math 1 M4 Lesson 26: Sierpinski Triangle
MA.912.GR.5.2 Construct the bisector of a segment or an angle, including the perpendicular bisector of a line segment.	Math 1 M4 Lesson 6: Compass and Straightedge Constructions Math 1 M4 Lesson 7: Constructing Perpendicular Lines Math 1 M4 Lesson 8: Reflections of the Plane Math 1 M4 Lesson 10: Rotations of the Plane with Bisected and Copied Angles Math 1 M4 Lesson 11: Translations of the Plane Math 1 M4 Lesson 22: Validating Triangle and Angle Constructions Math 1 M4 Lesson 23: Validating Perpendicular Line Constructions Math 1 M4 Lesson 26: Sierpinski Triangle
MA.912.GR.5.4 Construct a regular polygon inscribed in a circle. Regular polygons are limited to triangles, quadrilaterals and hexagons.	Math 1 M4 Lesson 24: Squares Inscribed in Circles Math 1 M4 Lesson 25: Regular Hexagons and Equilateral Triangles Inscribed in Circles

Data Analysis and Probability

MA.912.DP.1 Summarize, represent and interpret categorical and numerical data with one and two variables.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.DP.1.1 Given a set of data, select an appropriate method to represent the data, depending on whether it is numerical or categorical data and on whether it is univariate or bivariate.	Math 1 M1 Lesson 17: Distributions and Their Shapes Math 1 M1 Lesson 18: Describing the Center of a Distribution Math 1 M1 Lesson 19: Using Center to Compare Data Distributions Math 1 M2 Lesson 22: Relationships Between Quantitative Variables Math 1 M2 Lesson 28: Analyzing Bivariate Quantitative Data Math 1 M6 Lesson 1: Using Data to Edit Digital Photography Math 1 M6 Topic B: Modeling with Categorical Data
MA.912.DP.1.3 Explain the difference between correlation and causation in the contexts of both numerical and categorical data.	Math 1 M2 Lesson 27: Interpreting Correlation Math 1 M2 Lesson 28: Analyzing Bivariate Quantitative Data Math 1 M6 Topic B: Modeling with Categorical Data

Data Analysis and Probability

MA.912.DP.2 Solve problems involving univariate and bivariate numerical data.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.DP.2.1 For two or more sets of numerical univariate data, calculate and compare the appropriate measures of center and measures of variability, accounting for possible effects of outliers. Interpret any notable features of the shape of the data distribution.	Math 1 M1 Topic D: Univariate Data

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.DP.2.4 Fit a linear function to bivariate numerical data that suggests a linear association and interpret the slope and y-intercept of the model. Use the model to solve real-world problems in terms of the context of the data.	Math 1 M2 Lesson 23: Using Lines to Model Bivariate Quantitative Data Math 1 M2 Lesson 24: Modeling Relationships with a Line Math 1 M2 Lesson 25: Calculating and Analyzing Residuals Math 1 M2 Lesson 27: Interpreting Correlation Math 1 M2 Lesson 28: Analyzing Bivariate Quantitative Data Math 1 M6 Lesson 2: Using Residual Plots to Select Models for Data Math 1 M6 Lesson 3: Analyzing Paint Splatters Math 1 M6 Lesson 11: A Vanishing Sea
MA.912.DP.2.5 Given a scatter plot that represents bivariate numerical data, assess the fit of a given linear function by plotting and analyzing residuals.	Math 1 M2 Lesson 25: Calculating and Analyzing Residuals Math 1 M2 Lesson 26: Analyzing Residuals Math 1 M6 Lesson 2: Using Residual Plots to Select Models for Data Math 1 M6 Lesson 3: Analyzing Paint Splatters
MA.912.DP.2.6 Given a scatter plot with a line of fit and residuals, determine the strength and direction of the correlation. Interpret strength and direction within a real-world context.	Math 1 M2 Lesson 27: Interpreting Correlation Math 1 M2 Lesson 28: Analyzing Bivariate Quantitative Data Math 1 M6 Lesson 2: Using Residual Plots to Select Models for Data Math 1 M6 Lesson 3: Analyzing Paint Splatters
MA.912.DP.2.7 Compute the correlation coefficient of a linear model using technology. Interpret the strength and direction of the correlation coefficient.	Math 1 M2 Lesson 27: Interpreting Correlation Math 1 M2 Lesson 28: Analyzing Bivariate Quantitative Data Math 1 M6 Lesson 2: Using Residual Plots to Select Models for Data Math 1 M6 Lesson 3: Analyzing Paint Splatters

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.DP.2.8 Fit a quadratic function to bivariate numerical data that suggests a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data.	*Supplemental material is necessary to address this standard.*
MA.912.DP.2.9 Fit an exponential function to bivariate numerical data that suggests an exponential association. Use the model to solve real-world problems in terms of the context of the data.	Math 1 M6 Lesson 2: Using Residual Plots to Select Models for Data Math 1 M6 Lesson 3: Analyzing Paint Splatters Math 1 M6 Lesson 11: A Vanishing Sea

Data Analysis and Probability

MA.912.DP.3 Solve problems involving categorical data.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.DP.3.1 Construct a two-way frequency table summarizing bivariate categorical data. Interpret joint and marginal frequencies and determine possible associations in terms of a real-world context.	Math 1 M6 Topic B: Modeling with Categorical Data

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.DP.3.2 Given marginal and conditional relative frequencies, construct a two-way relative frequency table summarizing categorical bivariate data.	Math 1 M6 Topic B: Modeling with Categorical Data
MA.912.DP.3.3 Given a two-way relative frequency table or segmented bar graph summarizing categorical bivariate data, interpret joint, marginal and conditional relative frequencies in terms of a real-world context.	Math 1 M6 Topic B: Modeling with Categorical Data
MA.912.DP.3.4 Given a relative frequency table, construct and interpret a segmented bar graph.	Math 1 M6 Topic B: Modeling with Categorical Data
MA.912.DP.3.5 Solve real-world problems involving univariate and bivariate categorical data.	Math 1 M6 Topic B: Modeling with Categorical Data *Supplemental material is necessary to address real-world problems involving univariate categorical data.*

Logic and Discrete Theory

MA.912.LT.4 Develop an understanding of the fundamentals of propositional logic, arguments and methods of proof.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of *Eureka Math²*
MA.912.LT.4.7 Identify and give examples of undefined terms; axioms; theorems; proofs, including proofs using mathematical induction; and inductive and deductive reasoning.	Math 1 M4 Lesson 2: Translations of the Coordinate Plane Math 1 M4 Lesson 3: Rotations of the Coordinate Plane Math 1 M4 Lesson 5: Proving the Perpendicular Criterion Math 1 M4 Topic D: Rigid Motions and Congruence *Supplemental material is necessary to address axioms and proofs using mathematical induction.*