



Algebra I | Wyoming Mathematics Content and Performance Standards Correlation to Eureka Math^{2®}

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.

The Real Number System

N.RN.A Extend the properties of exponents to rational exponents.

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N.RN.A.1	A1 M5 Lesson 9: Unit Fraction Exponents
Explain how the meaning of the definition of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents.	A1 M5 Lesson 10: Rational Exponents
N.RN.A.2	A1 M5 Lesson 9: Unit Fraction Exponents
Rewrite expressions involving radicals and rational exponents using the properties of exponents.	A1 M5 Lesson 10: Rational Exponents

The Real Number System

N.RN.B Use properties of rational and irrational numbers.

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N.RN.B.3	A1 M4 Lesson 13: Using Square Roots to Solve Quadratic Equations
Explain why the sum or product of rational numbers is rational; that the sum of a rational number and an irrational number is irrational; and that the product of a nonzero rational number and an irrational number is irrational.	A1 M4 Lesson 17: Rewriting Square Roots

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Quantities

N.Q.C Reason quantitatively and use units to solve problems.

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N.Q.C.1	A1 M6 Lesson 5: Solar System Models
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.	
N.Q.C.2	A1 M4 Lesson 25: Maximizing Area
Define appropriate quantities for the purpose of descriptive modeling.	A1 M6 Lesson 5: Solar System Models
N.Q.C.3	A1 M6 Lesson 5: Solar System Models
Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.	

Seeing Structure in Expressions

A.SSE.A Interpret the structure of expressions.

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A.SSE.A.1	This standard is fully addressed by the lessons aligned to its subsections.
Interpret expressions that represent a quantity in terms of its context.	

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A.SSE.A.1A	A1 M4 Lesson 3: Analyzing Functions That Model Projectile Motion
Interpret parts of an expression, such as terms, factors, and coefficients.	
A.SSE.A.1B	A1 M5 Lesson 8: Exponential Functions
Interpret complicated expressions	A1 M5 Lesson 16: Exponential Growth
by viewing one or more of their parts as a single entity.	A1 M5 Lesson 17: Exponential Decay
single entity.	A1 M5 Lesson 18: Modeling Populations
	A1 M5 Lesson 23: Modeling the Temperature of Objects Cooling Over Time
A.SSE.A.2	A1 M1 Lesson 1: The Growing Pattern of Ducks
Use the structure of an expression	A1 M1 Lesson 2: The Commutative, Associative, and Distributive Properties
to identify ways to rewrite it.	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

Seeing Structure in Expressions

A.SSE.B Write expressions in equivalent forms to solve problems.

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A.SSE.B.3	This standard is fully addressed by the lessons aligned to its subsections.
Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.	
A.SSE.B.3A	A1 M4 Lesson 10: Zeros of Functions
Factor a quadratic expression to reveal the zeros of the function it defines.	A1 M4 Lesson 11: Graphing Quadratic Functions from Factored Form A1 M4 Lesson 22: A Summary of Graphing Quadratic Functions
A.SSE.B.3B	A1 M4 Lesson 21: Completing the Square to Graph Quadratic Functions
Complete the square in a quadratic expression to reveal the maximum or minimum value of the function it defines.	A1 M4 Lesson 22: A Summary of Graphing Quadratic Functions
A.SSE.B.3C	8 M1 Lesson 2: Comparing Large Numbers
Use the properties of exponents to transform expressions for exponential functions. Apply the concepts of decimal and scientific notation to solve real-world	8 M1 Lesson 4: Adding and Subtracting Numbers Written in Scientific Notation
	8 M1 Lesson 12: Operations with Numbers in Scientific Notation
	8 M1 Lesson 13: Applications with Numbers in Scientific Notation
and mathematical problems.	8 M1 Lesson 14: Choosing Units of Measurement
 Multiply and divide numbers expressed in both decimal and scientific notation. 	8 M1 Lesson 15: Get to the Point
ii. Add and subtract numbers in scientific notation with the same integer exponent.	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

Arithmetic with Polynomials and Rational Expressions

A.APR.C Perform arithmetic operations on polynomials.

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A.APR.C.1

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 3: Polynomial Expressions

A1 M1 Lesson 4: Adding and Subtracting Polynomial Expressions

A1 M1 Lesson 5: Multiplying Polynomial Expressions

A1 M1 Lesson 6: Polynomial Identities

Creating Equations

A.CED.G Create equations that describe numbers or relationships.

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A.CED.G.1

Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.

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

A.CED.G.2

Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.

A1 M2 Lesson 1: Solution Sets of Linear Equations in Two Variables

A1 M2 Lesson 2: Graphing Linear Equations in Two Variables

A1 M2 Lesson 3: Creating Linear Equations in Two Variables

A1 M2 Lesson 6: Applications of Linear Equations and Inequalities

A1 M4 Lesson 11: Graphing Quadratic Functions from Factored Form

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A.CED.G.2 continued	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.G.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.	A1 M1 Lesson 11: Writing and Solving Equations in One Variable A1 M1 Lesson 14: Solution Sets of Compound Statements 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.G.4 Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.	A1 M1 Lesson 12: Rearranging Formulas A1 M4 Lesson 13: Using Square Roots to Solve Quadratic Equations

Reasoning with Equations and Inequalities

A.REI.H Understand solving equations as a process of reasoning and explain the reasoning.

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A.REI.H.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

Reasoning with Equations and Inequalities

A.REI.I Solve equations and inequalities in one variable.

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A.REI.I.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

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A.REI.I.4	This standard is fully addressed by the lessons aligned to its subsections.
Solve quadratic equations in one variable.	
A.REI.I.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.	A1 M4 Lesson 15: Deriving the Quadratic Formula
A.REI.I.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	A1 M4 Lesson 7: Solving Quadratic Equations by Factoring: Splitting the Linear Term
formula and factoring, as appropriate	A1 M4 Lesson 8: A Summary of Solving Quadratic Equations by Factoring
to the initial form of the equation.	A1 M4 Lesson 9: Creating and Solving Quadratic Equations in One Variable
Recognize when the quadratic formula gives complex solutions and write them	A1 M4 Lesson 13: Using Square Roots to Solve Quadratic Equations
as $a + bi$ for real numbers a and b .	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
	Supplemental material is necessary to address complex solutions.

Reasoning with Equations and Inequalities

A.REI.J Solve systems of equations.

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A.REI.J.5	A1 M2 Lesson 9: A New Way to Solve Systems
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.	
A.REI.J.6	A1 M2 Lesson 7: Low-Flow Showerhead
Estimate solutions graphically and	A1 M2 Lesson 8: Systems of Linear Equations in Two Variables
determine algebraic solutions to linear systems, focusing on pairs of linear	A1 M2 Lesson 9: A New Way to Solve Systems
equations in two variables.	A1 M2 Lesson 10: The Elimination Method
	A1 M2 Lesson 11: Applications of Systems of Equations
A.REI.J.7	A1 M4 Lesson 24: Another Look at Systems of Equations
Solve a simple system consisting of a	
linear equation and a quadratic equation in two variables algebraically and	
graphically.	

Reasoning with Equations and Inequalities

A.REI.K Represent and solve equations and inequalities graphically.

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A.REI.K.10 Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane.	A1 M2 Lesson 1: Solution Sets of Linear Equations in Two Variables A1 M2 Lesson 2: Graphing Linear Equations in Two Variables
A.REI.K.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, polynomial, rational, absolute value, exponential, and logarithmic 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.K.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

Interpreting Functions

F.IF.A Understand the concept of a function and use function notation.

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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 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.A.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.A.3

Recognize that sequences are functions, sometimes defined recursively, 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

Interpreting Functions

F.IF.B Interpret functions that arise in application in terms of the context.

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F.IF.B.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. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.

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

A1 M4 Lesson 21: Completing the Square to Graph Quadratic Functions

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F.IF.B.4 continued	A1 M4 Lesson 23: Creating Equations of Quadratic Functions to Model Contexts A1 M4 Lesson 25: Maximizing Area
F.IF.B.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.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.	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

Interpreting Functions

F.IF.C Analyze functions using different representations.

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F.IF.C.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.	

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F.IF.C.7A	A1 M3 Lesson 4: The Graph of the Equation $y = f(x)$
Graph linear and quadratic functions and show intercepts, maxima, and minima.	A1 M3 Lesson 5: Using Pseudocode to Compare Graphs of Functions and Graphs of Equations
	A1 M3 Lesson 6: Representations of Functions
	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.C.7B	A1 M3 Topic C: Piecewise-Defined Linear Functions
Graph square root, cube root, and piecewise-defined functions, including	A1 M3 Lesson 19: Building New Functions—Translations
	A1 M3 Lesson 23: A Summary of Transforming the Graph of a Function
step functions and absolute value functions.	Supplemental material is necessary to address graphing cube root functions.
F.IF.C.7E	A1 M5 Lesson 11: Graphing Exponential Functions
Graph exponential and logarithmic	A1 M5 Lesson 12: Using Transformations to Graph Exponential Functions (Bases Greater Than 1)
functions, showing intercepts and	A1 M5 Lesson 13: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1)
end behavior.	Supplemental material is necessary to address graphing logarithmic and trigonometric functions.
F.IF.C.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.	

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F.IF.C.8A 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 10: Zeros of Functions A1 M4 Lesson 11: Graphing Quadratic Functions from Factored Form A1 M4 Lesson 22: A Summary of Graphing Quadratic Functions	
F.IF.C.8B Use the properties of exponents to interpret 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	
F.IF.C.9 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	A1 M3 Lesson 11: Comparing Functions A1 M4 Lesson 12: Using Symmetry to Graph Quadratic Functions from Standard Form A1 M4 Lesson 21: Completing the Square to Graph Quadratic Functions	

Building Functions

F.BF.D Build a function that models a relationship between two quantities.

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

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F.BF.D.1A	A1 M3 Lesson 17: Piecewise Linear Functions in Context		
Determine an explicit expression, a recursive process, or steps for	A1 M4 Lesson 23: Creating Equations of Quadratic Functions to Model Contexts		
	A1 M4 Lesson 25: Maximizing Area		
calculation from a context.	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		
F.BF.D.1B	A1 M6 Lesson 4: The Deal		
Combine standard function types using	A1 M6 Lesson 6: Designing a Fundraiser		
arithmetic operations.	A1 M6 Lesson 7: World Record Doughnut		
F.BF.D.2	A1 M5 Lesson 5: Arithmetic and Geometric Sequences		
Write arithmetic and geometric	A1 M5 Lesson 6: Representations of Arithmetic and Geometric Sequences		
sequences both recursively and with	A1 M5 Lesson 7: Sierpinski Triangle		
an explicit formula, use them to model situations, and translate between the			
two forms.			

Building Functions

F.BF.E Build new functions from existing functions.

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F.BF.E.3

Identify the effect on the graph of replacing f(x) by f(x) + k, kf(x), f(kx), and f(k+x) 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. Include recognizing even and odd functions from their graphs and algebraic expressions for them.

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

Linear, Quadratic, and Exponential Models

F.LE.F Construct and compare linear, quadratic, and exponential models and solve problems.

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F.LE.F.1

Distinguish between situations that can be modeled with linear functions and with exponential functions. A1 M5 Lesson 15: Calculating Interest

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

A1 M6 Topic A: Modeling Bivariate Quantitative Data

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F.LE.F.1A	A1 M5 Lesson 19: Analyzing Exponential Growth
Verify that linear functions grow by equal differences over equal intervals and that exponential functions grow by equal factors over equal intervals.	
F.LE.F.2	A1 M5 Lesson 8: Exponential Functions
Construct linear and exponential functions using a graph, a description of a relationship, or two input-output pairs (include reading these from a table).	A1 M5 Lesson 14: Writing Equations for Exponential Functions from Tables or Graphs
	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
F.LE.F.3	A1 M5 Lesson 20: Comparing Growth of Functions
Observe using graphs and tables that	
a quantity increasing exponentially	
eventually exceeds a quantity increasing linearly, quadratically, or (more generally)	
as a polynomial function.	

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Linear, Quadratic, and Exponential Models

F.LE.F Interpret expressions for functions in terms of the situation they model.

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F.LE.F.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

Interpreting Categorical and Quantitative Data

S.ID.A Summarize, represent, and interpret data on a single count or measurement variable.

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S.ID.A.1	A1 M1 Lesson 18: Distributions and Their Shapes		
Represent data with plots on the real number line (dot plots, histograms, and box plots) by hand or using technology.	A1 M1 Lesson 19: Describing the Center of a Distribution A1 M1 Lesson 20: Using Center to Compare Data Distributions		
S.ID.A.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.			

Aligned Components of Eureka Math²

S.I	D.	Δ	3

Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).

A1 M1 Topic D: Univariate Data

Interpreting Categorical and Quantitative Data

S.ID.B Summarize, represent, and interpret data on two categorical and quantitative variables.

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Aligned Components of *Eureka Math*²

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 in the data, and use inferential statistical techniques to show association.

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.B.6

Represent data on two quantitative variables on a scatter plot, and describe how the variables are related.

A1 M2 Lesson 15: Relationships Between Quantitative Variables

A1 M2 Lesson 21: Analyzing Bivariate Quantitative Data

Aligned Components of Eureka Math²

S.ID.B.6A	A1 M2 Lesson 16: Using Lines to Model Bivariate Quantitative Data	
Use a function to describe data trends to solve problems in the context of the data. Use given functions or choose a function suggested by the context. Emphasize linear, quadratic, and	A1 M2 Lesson 17: Modeling Relationships with a Line 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	
exponential models. S.ID.B.6C	A1 M6 Topic A: Modeling Bivariate Quantitative Data A1 M2 Lesson 17: Modeling Relationships with a Line	
Using technology, fit a least squares linear regression function for a scatter plot that suggests a linear association.	A1 M2 Lesson 18: Calculating and Analyzing Residuals A1 M2 Lesson 20: Interpreting Correlation A1 M6 Topic A: Modeling Bivariate Quantitative Data	
S.ID.B.6B Informally assess the fit of a function by plotting and analyzing residuals.	A1 M2 Lesson 18: Calculating and Analyzing Residuals A1 M2 Lesson 19: Analyzing Residuals A1 M6 Topic A: Modeling Bivariate Quantitative Data	

Interpreting Categorical and Quantitative Data

S.ID.C Interpret linear models.

Wyoming Mathematics Content and Performance Standards

Aligned Components of Eureka Math²

S.ID.C.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.C.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.C.9	A1 M2 Lesson 20: Interpreting Correlation	
Distinguish between correlation and causation.	A1 M2 Lesson 21: Analyzing Bivariate Quantitative Data	