



Algebra I | Kansas College & Career Ready 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.

Quantities

Reason quantitatively and use units to solve problems.

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

The Real Number System

Use properties of rational numbers and irrational numbers.

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N.RN.1	8 M1 Topic B: Properties and Definitions of Exponents
Know and apply the properties of integer exponents to generate equivalent numerical and algebraic expressions.	

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N.RN.2	A1 M5 Lesson 9: Unit Fraction Exponents
Explain how the definition of the meaning 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.3	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

Seeing Structure in Expressions

Interpret the structure of expressions.

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Aligned Components of Eureka Math²

A.SSE.1	This standard is fully addressed by the lessons aligned to its subsections.
Interpret expressions that represent a quantity in terms of its context.	
A.SSE.1a	A1 M4 Lesson 3: Analyzing Functions That Model Projectile Motion
Interpret parts of an expression, such as terms, factors, and coefficients.	

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A.SSE.1b	A1 M5 Lesson 8: Exponential Functions
Interpret complicated expressions by viewing one or more of their parts as a	A1 M5 Lesson 16: Exponential Growth
	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.2	A1 M1 Lesson 1: The Growing Pattern of Ducks
Use the structure of an expression to	A1 M1 Lesson 2: The Commutative, Associative, and Distributive Properties
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

Write expressions in equivalent forms to solve problems.

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

Arithmetic with Polynomials and Rational Expressions

Perform arithmetic operations on polynomials.

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A.APR.1	A1 M1 Lesson 3: Polynomial Expressions
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

Creating Equations

Create equations that describe numbers or relationships.

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A.CED.1	A1 M1 Lesson 7: Printing Presses
Apply and extend previous understanding	A1 M1 Lesson 11: Writing and Solving Equations in One Variable
to create equations and inequalities in one variable and use them to solve problems.	A1 M1 Lesson 13: Solving Linear Inequalities in One Variable
variable and use them to solve problems.	A1 M1 Lesson 15: Solving and Graphing Compound Inequalities
	A1 M4 Lesson 9: Creating and Solving Quadratic Equations in One Variable
A.CED.2	A1 M2 Lesson 1: Solution Sets of Linear Equations in Two Variables
Apply and extend previous understanding	A1 M2 Lesson 2: Graphing Linear Equations in Two Variables
to create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.	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
	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

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A.CED.2 continued	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 or	A1 M1 Lesson 14: Solution Sets of Compound Statements
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

Reasoning with Equations and Inequalities

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

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A.REI.1	A1 M1 Lesson 9: Solving Linear Equations in One Variable
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 10: Some Potential Dangers When Solving Equations A1 M1 Lesson 11: Writing and Solving Equations in One Variable
A.REI.2 Apply and extend previous understanding to solve equations, inequalities, and compound inequalities in one variable, including literal equations and inequalities.	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
A.REI.5 Solve quadratic equations and inequalities.	This standard is fully addressed by the lessons aligned to its subsections.

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A.REI.5a

Solve quadratic equations by inspection (e.g., for $x^2 = 49$), taking square roots, the quadratic formula and factoring, as appropriate to the initial form of the equation. Recognize when the quadratic formula gives no real solutions.

A1 M4 Lesson 5: Solving Equations That Contain Factored Expressions

A1 M4 Lesson 6: Solving Quadratic Equations by Factoring: Identities and Guess and Check

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

A.REI.5c

Use the method of completing the square to transform and solve any quadratic equation in x into an equation of the form $(x-p)^2=q$ that has the same solutions.

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

A1 M4 Lesson 15: Deriving the Quadratic Formula

Reasoning with Equations and Inequalities

Solve systems of equations.

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A.REI.6

Analyze and solve pairs of simultaneous linear equations.

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

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A.REI.6a	8 M5 Topic A: Solving Systems of Linear Equations Graphically
Understand that solutions to a system	8 M5 Lesson 7: The Substitution Method
of two linear equations in two variables	8 M5 Lesson 10: Choosing a Solution Method
correspond to points of intersection of their graphs, because points of intersection	8 M5 Lesson 14: Back to the Coordinate Plane
satisfy both equations simultaneously.	
A.REI.6b	8 M5 Lesson 1: Solving Problems with Equations and Their Graphs
Solve systems of two linear equations in	8 M5 Lesson 3: Identifying Solutions
two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.	8 M5 Lesson 4: More Than One Solution
	8 M5 Lesson 5: Estimating Solutions
	8 M5 Topic B: Solving Systems of Equations Algebraically
	8 M5 Topic C: Writing and Solving Systems of Linear Equations
A.REI.6c	8 M5 Lesson 1: Solving Problems with Equations and Their Graphs
Solve real-world and mathematical	8 M5 Topic C: Writing and Solving Systems of Linear Equations
problems leading to two linear equations in two variables.	

Reasoning with Equations and Inequalities

Represent and solve equations and inequalities graphically.

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A.REI.8	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
A.REI.9	A1 M3 Lesson 10: Using Graphs to Solve Equations
Solve an equation $f(x) = g(x)$ by graphing	A1 M3 Lesson 15: The Absolute Value Function
y = f(x) and $y = g(x)$ and finding the	A1 M4 Lesson 24: Another Look at Systems of Equations
x-value of the intersection point. Include cases where $f(x)$ and/or $g(x)$ are linear,	A1 M5 Lesson 13: Using Transformations to Graph Exponential Functions (Bases Between 0 and 1)
polynomial, rational, absolute value, exponential, and logarithmic functions.	A1 M5 Lesson 20: Comparing Growth of Functions
A.REI.10	A1 M2 Lesson 4: Solution Sets of Linear Inequalities in Two Variables
Graph the solutions to a linear inequality	A1 M2 Lesson 5: Graphing Linear Inequalities in Two Variables
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 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

Understand the concept of a function and use function notation.

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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

Aligned Components of Eureka Math²

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Recognize patterns in order to write 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

Interpreting Functions

Interpret functions that arise in applications in terms of the context.

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F.IF.4

For a function that models a relationship between two quantities, interpret key features of expressions, graphs and tables in terms of the quantities, and sketch graphs showing key features given a 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

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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	A1 M3 Lesson 3: The Graph of a Function
Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes.	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	A1 M4 Lesson 1: Falling Objects
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 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

Analyze functions using different representations.

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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 linear, quadratic and absolute	A1 M3 Lesson 5: Using Pseudocode to Compare Graphs of Functions and Graphs of Equations
value functions and show intercepts, maxima, minima and end behavior.	A1 M3 Lesson 6: Representations of Functions
maxima, minima ana ena benavior.	A1 M3 Lesson 15: The Absolute Value Function
	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 M5 Lesson 11: Graphing Exponential Functions
Graph square root, cube root, and exponential functions.	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)
	Supplemental material is necessary to address graphing square root and cube root functions.

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F.IF.7d Graph piecewise-defined functions, including step functions.	A1 M3 Lesson 13: Modeling Elevation as a Function of Time A1 M3 Lesson 14: Piecewise Linear Functions A1 M3 Lesson 16: Step Functions A1 M3 Lesson 17: Piecewise Linear Functions in Context
F.IF.8 Write a function in different but equivalent forms to reveal and explain different properties of the function.	This standard is fully addressed by the lessons aligned to its subsections.
F.IF.8a Use different forms of linear functions, such as slope-intercept, standard, and point-slope form to show rate of change and intercepts.	8 M4 Topic E: Different Forms of Linear Equations 8 M4 Topic F: Graphing and Writing Linear Equations
F.IF.8b 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.8c 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

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F.IF.9	A1 M3 Lesson 11: Comparing Functions
Compare properties of two functions using a variety of representations (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

Building Functions

Build a function that models a relationship between two quantities.

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F.BF.1	A1 M6 Lesson 5: Solar System Models
Use functions to model real-world relationships.	
F.BF.1a	A1 M6 Lesson 4: The Deal
Combine multiple functions to model	A1 M6 Lesson 6: Designing a Fundraiser
complex relationships.	A1 M6 Lesson 7: World Record Doughnut
F.BF.1b	A1 M6 Lesson 5: Solar System Models
Determine an explicit expression, a recursive function, or steps for	
calculation from a context.	

expressions for them.

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F.BF.2 Write arithmetic and geometric sequences and series both recursively and with an explicit formula, use them to model situations, and translate between the two forms.	A1 M5 Lesson 5: Arithmetic and Geometric Sequences A1 M5 Lesson 6: Representations of Arithmetic and Geometric Sequences A1 M5 Lesson 7: Sierpinski Triangle
F.BF.3	A1 M3 Topic D: Transformations of Functions
Transform parent functions $(f(x))$ by replacing $f(x)$ with $f(x) + k$, $kf(x)$, $f(kx)$, 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. Include recognizing even and odd functions from their graphs and algebraic	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

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

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F.LQE.1	A1 M5 Lesson 15: Calculating Interest
Distinguish between situations that can	A1 M5 Lesson 18: Modeling Populations
be modeled with linear functions and with exponential functions.	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.LQE.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.LQE.2	A1 M5 Lesson 14: Writing Equations for Exponential Functions from Tables or Graphs
Construct exponential functions, given a	A1 M5 Lesson 8: Exponential Functions
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

Interpreting Categorical and Quantitative Data

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

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S.ID.1	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.2	A1 M1 Topic D: Univariate Data
Interpret differences in shape, center, and spread in the context of the data sets using dot plots, histograms, and box plots, accounting for possible effects of extreme data points (outliers).	

Interpreting Categorical and Quantitative Data

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

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S.ID.4	A1 M2 Topic D: Categorical Data on Two Variables
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.	

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S.ID.5	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.5a	A1 M2 Lesson 16: Using Lines to Model Bivariate Quantitative Data
Use a given linear function to solve	A1 M2 Lesson 17: Modeling Relationships with a Line
problems in the context of 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.5b	A1 M2 Lesson 16: Using Lines to Model Bivariate Quantitative Data
Fit a linear function to data and use it to	A1 M2 Lesson 17: Modeling Relationships with a Line
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.5c	A1 M2 Lesson 18: Calculating and Analyzing Residuals
Assess the fit of a function by plotting	A1 M2 Lesson 19: Analyzing Residuals
and analyzing residuals.	A1 M6 Topic A: Modeling Bivariate Quantitative Data

Interpreting Categorical and Quantitative Data

Interpret linear models.

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S.ID.6	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.7	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.8	A1 M2 Lesson 20: Interpreting Correlation
Distinguish between correlation and causation.	A1 M2 Lesson 21: Analyzing Bivariate Quantitative Data
Causation.	