ABOUT EUREKA MATH

ALIGNED

DATA

FULL SUITE OF RESOURCES

Created by the nonprofit Great Minds, Eureka Math helps teachers deliver unparalleled math instruction that provides students with a deep understanding and fluency in math. Crafted by teachers and math scholars, the curriculum carefully sequences the mathematical progressions to maximize coherence from Prekindergarten through Precalculus-a principle tested and proven to be essential in students' mastery of math.

Teachers and students using Eureka Math find the trademark "Aha!" moments in Eureka Math to be a source of joy and inspiration, lesson after lesson, year after year.

Eureka Math is the only curriculum found by EdReports.org to align fully with the Common Core State Standards for Mathematics for all grades, Kindergarten through Grade 8. Great Minds offers detailed analyses which demonstrate how each grade of Eureka Math aligns with specific state standards. Access these free alignment studies at greatminds.org/state-studies.

Schools and districts nationwide are experiencing student growth and impressive test scores after using Eureka Math. See their stories and data at greatminds.org/data.

As a nonprofit, Great Minds offers the Eureka Math curriculum as PDF downloads for free, noncommercial use. Access the free PDFs at greatminds.org/math/curriculum.

The teacher-writers who created the curriculum have also developed essential resources, available only from Great Minds, including the following:

- Printed material in English and Spanish
- Digital resources
- Professional development
- Classroom tools and manipulatives
- Teacher support materials
- Parent resources


## Connecticut Common Core State Standards: Mathematics Correlation to Eureka Math ${ }^{\text {M }}$

## INTEGRATED I

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

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


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


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


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


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| :---: | :---: | :---: | :---: |
|  |  | A-CED.A. 3 <br> Represent constraints by equations or inequalities, and by systems of equations and/ or inequalities, and interpret solutions as viable or non-viable options in a modeling context. | Algebra I M1 Lesson 15: Solution Sets of Two or More Equations (or Inequalities) Joined by "And" or "Or" <br> Algebra I M1 Lesson 20: Solution Sets to Equations with Two Variables <br> Algebra I M1 Lesson 24: Applications of Systems of Equations and Inequalities <br> Algebra I M1 Lesson 27: Recursive Challenge Problem-The Double and Add 5 Game <br> Algebra I M3 Topic B: Functions and Their Graphs <br> Algebra I M3 Lesson 24: Piecewise and Step Functions in Context <br> Algebra II M1 Lessons 20-21: Modeling Riverbeds with Polynomials <br> Algebra II M3 Topic E: Geometric Series and Finance |
|  |  | A-CED.A. 4 <br> Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. | Algebra I M1 Lesson 19: Rearranging Formulas |


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| :---: | :---: | :---: | :---: |
|  | Reasoning with Equations and Inequalities | Cluster: Understand solving equations as a process of reasoning and explain the reasoning. |  |
|  |  | A-REI.A. 1 <br> 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. | Algebra I M1 Lesson 12: Solving Equations <br> Algebra I M1 Lesson 13: Some Potential Dangers when Solving Equations <br> Algebra I M1 Lesson 17: Equations Involving Factored Expressions <br> Algebra I M1 Lesson 18: Equations Involving a Variable Expression in the Denominator <br> Algebra II M1 Lesson 28: A Focus on Square Roots |
|  |  | Cluster: Solve equations an | qualities in one variable. |
|  |  | A-REI.B. 3 <br> Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters. | Algebra I M1: Relationships Between Quantities and Reasoning with Equations and Their Graphs |
|  |  | Cluster: Solve systems of eq | ons. |
|  |  | A-REI.C. 5 <br> Prove that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions. | Algebra I M1 Lesson 23: Solution Sets to Simultaneous Equations |



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| :---: | :---: | :---: | :---: |
|  |  | A-REI.D. 12 <br> Graph the solutions to a linear inequality in two variables as a half-plane (excluding the boundary in the case of a strict inequality), and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes. | Algebra I M1 Lesson 21: Solution Sets to Inequalities with Two Variables <br> Algebra I M1 Lesson 22: Solution Sets to Simultaneous Equations <br> Algebra I M1 Lesson 24: Applications of Systems of Equations and Inequalities |
| Functions | Interpreting Functions | Cluster: Understand the concept of a function and use function notation. |  |
|  |  | F-IF.A. 1 <br> 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 $y=f(x)$. | Algebra I M3 Lesson 1: Integer Sequences-Should You Believe in Patterns? <br> Algebra I M3 Lesson 12: The Graph of the Equation $y=f(x)$ |
|  |  | F-IF.A. 2 <br> Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context. | Algebra I M3: Linear and Exponential Functions |


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| :--- | :--- | :--- | :--- |
|  |  | F-IF.A.3 <br> Recognize that sequences are <br> functions, sometimes defined <br> recursively, whose domain is a <br> subset of the integers. | Algebra I M3 Lesson 2: Recursive Formulas for Sequences <br> Algebra I M3 Lesson 3: Arithmetic and Geometric Sequences <br> Algebra I M3 Lesson 4: Why Do Banks Pay YOU to Provide <br> Their Services? <br> Algebra II M3 Lesson 26: Percent Rate of Change |


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| :---: | :---: | :---: | :---: |
|  |  | Cluster: Interpret functions that arise in applications in terms of the context. |  |
|  |  | F-IF.B. 4 <br> 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. | Algebra I M3 Lesson 13: Interpreting the Graph of a Function <br> Algebra I M3 Lesson 14: Linear and Exponential ModelsComparing Growth Rates <br> Algebra I M3 Topic D: Using Functions and Graphs to Solve Problems <br> Algebra I M4 Lesson 8: Exploring the Symmetry in Graphs of Quadratic Functions <br> Algebra I M4 Lesson 9: Graphing Quadratic Functions from Factored Form, $f(x)=a(x-m)(x-n)$ <br> Algebra I M4 Lesson 10: Interpreting Quadratic Functions from Graphs and Tables <br> Algebra I M4 Lesson 17: Graphing Quadratic Functions from the Standard Form, $f(x)=a x^{2}+b x+c$ <br> Algebra I M4 Lesson 22: Comparing Quadratic, Square Root, and Cube Root Functions Represented in Different Ways <br> Algebra I M5: A Synthesis of Modeling with Equations and Functions <br> Algebra II M1 Lessons 16-17: Modeling with Polynomials-An Introduction <br> Algebra II M2 Lesson 12: Ferris Wheels-Using Trigonometric Functions to Model Cyclical Behavior <br> Algebra II M2 Lesson 13: Tides, Sound Waves, and Stock Markets <br> Algebra II M3 Lesson 18: Graphs of Exponential Functions and Logarithmic Functions <br> Algebra II M3 Lesson 20: Transformations of the Graphs of Logarithmic and Exponential Functions <br> Algebra II M3 Lesson 21: The Graph of the Natural Logarithm Function |


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| :---: | :---: | :---: | :---: |
|  |  | F-IF.B. 5 <br> Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. | Algebra I M3 Topic B: Functions and Their Graphs <br> Algebra I M4 Lesson 9: Graphing Quadratic Functions from Factored Form, $f(x)=a(x-m)(x-n)$ <br> Algebra I M5 Lesson 1: Analyzing a Graph <br> Algebra I M5 Lesson 4: Modeling a Context from a Graph <br> Algebra II M1 Lessons 16-17: Modeling with Polynomials-An Introduction <br> Algebra II M3 Lesson 17: Graphing the Logarithm Function |
|  |  | F-IF.B. 6 <br> Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph. | Algebra I M3 Lesson 6: Exponential Growth-U.S. Population and World Population <br> Algebra I M3 Topic D: Using Functions and Graphs to Solve Problems <br> Algebra I M4 Lesson 8: Exploring the Symmetry in Graphs of Quadratic Functions <br> Algebra I M4 Lesson 10: Interpreting Quadratic Functions from Graphs and Tables <br> Algebra I M4 Lesson 17: Graphing Quadratic Functions from the Standard Form, $f(x)=a x^{2}+b x+c$ <br> Algebra I M4 Lesson 22: Comparing Quadratic, Square Root, and Cube Root Functions Represented in Different Ways <br> Algebra I M5 Lesson 4: Modeling a Context from a Graph <br> Algebra II M3 Lesson 6: Euler's Number, $e$ <br> Algebra II M3 Lesson 27: Modeling with Exponential Functions |


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


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



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



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




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


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


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


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

