

Algebra I | Indiana Academic Standards for Mathematics Correlation to Eureka Math®

About Eureka Math

Created by Great Minds[®], a mission-driven Public Benefit Corporation, *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.

Aligned

Great Minds offers detailed analyses that demonstrate how each grade of *Eureka Math* aligns with specific state standards. Access these free alignment studies at <u>greatminds.org/state-studies</u>.

Data

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.

Full Suite of Resources

Great Minds offers the *Eureka Math* curriculum as PDF downloads for free, noncommercial use. Access the free PDFs at <u>greatminds.org/</u><u>math/curriculum</u>.

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

A1 | Indiana Academic Standards for Mathematics Correlation to Eureka Math

Mathematics Process Standards	Aligned Components of Eureka Math
PS.1 Make sense of problems and persevere in solving them.	Lessons in every module engage students in mathematical processes. These are designated in the Module Overview and labeled in lessons. For example:
PS.2 Reason abstractly and quantitatively.	A STORY OF FUNCTIONS Lesson 8 M4 ALGEBRA I
PS.3 Construct viable arguments and critique the reasoning of others.	Problem Set Sample Solutions 1. Khaya stated that every y-value of the graph of a quadratic function has two different x-values. Do you agree or
PS.4	MP.3 assgree with Knaya'r Explain you'r answer. The graph of a quadratic function hos two different x-values for each y-value except at the vertex where there is only one.
Model with mathematics. PS 5	 Is it possible for the graphs of two <i>different</i> quadratic functions to each have x = −3 as its line of symmetry and both have a maximum at y = 5? Explain and support your answer with a sketch of the graphs. Students should sketch two graphs with vertex at (−3, 5) and different x-intercepts.
Use appropriate tools strategically.	
PS.6 Attend to precision.	
PS.7	
Look for and make use of structure.	
PS.8	
Look for and express regularity in repeated reasoning.	

A1 | Indiana Academic Standards for Mathematics Correlation to Eureka Math

Number Systems, Expressions, and Functions

Students simplify and manipulate algebraic expressions, equations, and functions in a variety of forms.

Indiana Academic Standards for Mathematics	Aligned Components of Eureka Math
AI.NF.1 Simplify square roots of monomial algebraic expressions, including non-perfect squares.	G8 M7 Lesson 4: Simplifying Square Roots Algebra II M1 Lesson 9: Radicals and Conjugates
AI.NF.2 Add, subtract, and multiply polynomials. Divide polynomials by monomials. Use these operations to rewrite algebraic expressions in equivalent forms, and justify them with algebraic properties. (E)	Algebra I M1 Topic B: The Structure of Expressions Algebra I M4 Lesson 1: Multiplying and Factoring Polynomial Expressions Algebra I M4 Lesson 2: Multiplying and Factoring Polynomial Expressions Algebra I M4 Lesson 3: Advanced Factoring Strategies for Quadratic Expressions Algebra I M4 Lesson 4: Advanced Factoring Strategies for Quadratic Expressions Algebra I M4 Lesson 2: The Multiplication of Polynomials <i>Supplemental material is necessary to address dividing polynomials by monomials.</i>
AI.NF.3 Extend understanding of independent/ dependent variables to encompass domain/range, as applied to relations using tables, graphs, verbal descriptions, and equations. (E)	Algebra I M3 Lesson 9: Representing, Naming, and Evaluating Functions Algebra I M3 Lesson 10: Representing, Naming, and Evaluating Functions Algebra I M3 Lesson 11: The Graph of a Function
AI.NF.4 Evaluate functions for given elements of the domain, and interpret statements in function notation in terms of a context.	Algebra I M3 Lesson 8: Why Stay with Whole Numbers? Algebra I M3 Lesson 9: Representing, Naming, and Evaluating Functions Algebra I M3 Lesson 10: Representing, Naming, and Evaluating Functions Algebra I M3 Lesson 11: The Graph of a Function

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Aligned Components of Eureka Math

AI.NF.5G&Describe, qualitatively, the functional
relationship between two quantities
by analyzing key features of a graph.
Sketch a graph that exhibits given key
features of a function that has been
verbally described, including intercepts,
where the function is increasing
or decreasing, where the function
is positive or negative, and any relative
maximum or minimum values. Identify
the independent and dependent
variables. (E)G&AI.NF.5G&AI.NF.5G&Described, including intercepts,
where the function
is positive or negative, and any relative
maximum or minimum values. Identify
the independent and dependent
AI.<

G8 M6 Lesson 2: Interpreting Rate of Change and Initial Value
G8 M6 Lesson 3: Representations of a Line
G8 M6 Lesson 4: Increasing and Decreasing Functions
G8 M6 Lesson 5: Increasing and Decreasing Functions
G8 M6 Lesson 10: Linear Models
G8 M6 Lesson 11: Using Linear Models in a Data Context
Algebra I M1 Topic A: Introduction to Functions Studied this Year-Graphing Stories
Algebra I M3 Lesson 11: The Graph of a Function
Algebra I M3 Lesson 12: The Graph of the Equation $y = f(x)$
Algebra I M3 Lesson 13: Interpreting the Graph of a Function
Algebra I M4 Lesson 8: Exploring the Symmetry in Graphs of Quadratic Functions
Algebra I M4 Lesson 9: Graphing Quadratic Functions from Factored Form, $f(x) = a(x - m)(x - n)$
Algebra I M4 Lesson 10: Interpreting Quadratic Functions from Graphs and Tables
Algebra I M4 Lesson 16: Graphing Quadratic Equations from the Vertex Form, $y = a(x - h)^2 + k$
Algebra I M4 Lesson 17: Graphing Quadratic Functions from the Standard Form, $f(x) = ax^2 + bx + c$
Algebra I M4 Lesson 22: Comparing Quadratic, Square Root, and Cube Root Functions Represented in Different Ways
Algebra I M4 Lesson 23: Modeling with Quadratic Functions
Algebra I M5 Lesson 1: Analyzing a Graph
Algebra I M5 Lesson 2: Analyzing a Data Set
Algebra I M5 Lesson 4: Modeling a Context from a Graph
Algebra I M5 Lesson 6: Modeling a Context from Data
Algebra I M5 Lesson 7: Modeling a Context from Data
Algebra I M5 Lesson 9: Modeling a Context from a Verbal Description
Algebra II M1 Lesson 14: Graphing Factored Polynomials

Linear Equations, Inequalities, and Functions

Students represent real-world situations with linear functions and use these equations to solve problems.

Indiana Academic Standards for Mathematics

AI.L.1	Algebra I M1 Lesson 10: True and False Equations
Represent real-world problems using linear equations and inequalities in one variable, including those with rational number coefficients and variables	Algebra I M1 Lesson 11: Solution Sets for Equations and Inequalities
	Algebra I M1 Lesson 12: Solving Equations
	Algebra I M1 Lesson 13: Some Potential Dangers When Solving Equations
on both sides of the equal sign. Solve	Algebra I M1 Lesson 14: Solving Inequalities
them fluently, explaining the process used and justify the choice of a solution	Algebra I M1 Lesson 15: Solution Sets of Two or More Equations (or Inequalities) Joined by "And" or "Or"
	Algebra I M1 Lesson 16: Solving and Graphing Inequalities Joined by "And" or "Or"
	Algebra I M1 Lesson 17: Equations Involving Factored Expressions
	Algebra I M1 Lesson 18: Equations Involving a Variable Expression in the Denominator
	Algebra I M1 Lesson 19: Rearranging Formulas
	Algebra I M1 Lesson 25: Solving Problems in Two Ways–Rates and Algebra
AI.L.2	Algebra I M1 Lesson 25: Solving Problems in Two Ways–Rates and Algebra G8 M4 Topic C: Slope and Equations of Lines
AI.L.2 Represent linear functions as graphs	Algebra I M1 Lesson 25: Solving Problems in Two Ways–Rates and Algebra G8 M4 Topic C: Slope and Equations of Lines G8 M5 Lesson 3: Linear Functions and Proportionality
AI.L.2 Represent linear functions as graphs from equations (with emphasis	Algebra I M1 Lesson 25: Solving Problems in Two Ways–Rates and Algebra G8 M4 Topic C: Slope and Equations of Lines G8 M5 Lesson 3: Linear Functions and Proportionality G8 M5 Lesson 6: Graphs of Linear Functions and Rate of Change
AI.L.2 Represent linear functions as graphs from equations (with emphasis on technology), equations from graphs, and equations from tables	Algebra I M1 Lesson 25: Solving Problems in Two Ways–Rates and Algebra G8 M4 Topic C: Slope and Equations of Lines G8 M5 Lesson 3: Linear Functions and Proportionality G8 M5 Lesson 6: Graphs of Linear Functions and Rate of Change G8 M5 Lesson 7: Comparing Linear Functions and Graphs
AI.L.2 Represent linear functions as graphs from equations (with emphasis on technology), equations from graphs, and equations from tables and other given information (e.g., from	Algebra I M1 Lesson 25: Solving Problems in Two Ways–Rates and Algebra G8 M4 Topic C: Slope and Equations of Lines G8 M5 Lesson 3: Linear Functions and Proportionality G8 M5 Lesson 6: Graphs of Linear Functions and Rate of Change G8 M5 Lesson 7: Comparing Linear Functions and Graphs G8 M6 Lesson 1: Modeling Linear Relationships
AI.L.2 Represent linear functions as graphs from equations (with emphasis on technology), equations from graphs, and equations from tables and other given information (e.g., from a given point on a line and the slope of the line). Find the equations of a line	Algebra I M1 Lesson 25: Solving Problems in Two Ways–Rates and Algebra G8 M4 Topic C: Slope and Equations of Lines G8 M5 Lesson 3: Linear Functions and Proportionality G8 M5 Lesson 6: Graphs of Linear Functions and Rate of Change G8 M5 Lesson 7: Comparing Linear Functions and Graphs G8 M6 Lesson 1: Modeling Linear Relationships G8 M6 Lesson 2: Interpreting Rate of Change and Initial Value
AI.L.2 Represent linear functions as graphs from equations (with emphasis on technology), equations from graphs, and equations from tables and other given information (e.g., from a given point on a line and the slope of the line). Find the equations of a line in a slope-intercept, point-slope, and	Algebra I M1 Lesson 25: Solving Problems in Two Ways–Rates and Algebra G8 M4 Topic C: Slope and Equations of Lines G8 M5 Lesson 3: Linear Functions and Proportionality G8 M5 Lesson 6: Graphs of Linear Functions and Rate of Change G8 M5 Lesson 7: Comparing Linear Functions and Graphs G8 M6 Lesson 1: Modeling Linear Relationships G8 M6 Lesson 2: Interpreting Rate of Change and Initial Value G8 M6 Lesson 3: Representations of a Line
AI.L.2 Represent linear functions as graphs from equations (with emphasis on technology), equations from graphs, and equations from tables and other given information (e.g., from a given point on a line and the slope of the line). Find the equations of a line in a slope-intercept, point-slope, and standard forms. Reveal more or less	Algebra I M1 Lesson 25: Solving Problems in Two Ways–Rates and Algebra G8 M4 Topic C: Slope and Equations of Lines G8 M5 Lesson 3: Linear Functions and Proportionality G8 M5 Lesson 6: Graphs of Linear Functions and Rate of Change G8 M5 Lesson 7: Comparing Linear Functions and Graphs G8 M6 Lesson 1: Modeling Linear Relationships G8 M6 Lesson 2: Interpreting Rate of Change and Initial Value G8 M6 Lesson 3: Representations of a Line G8 M6 Lesson 10: Linear Models

for Mathematics	Aligned Components of Eureka Math
AI.L.2 continued	Algebra I M3 Lesson 11: The Graph of a Function Algebra I M3 Lesson 12: The Graph of the Equation $y = f(x)$ Algebra I M3 Lesson 14: Linear and Exponential Models—Comparing Growth Rates
AI.L.3 Represent real-world problems that can be modeled with a linear function using equations, graphs, and tables, including with technology. Translate fluently among these representations and interpret the slope and intercepts. (E)	 G8 M5 Lesson 3: Linear Functions and Proportionality G8 M5 Lesson 6: Graphs of Linear Functions and Rate of Change G8 M5 Lesson 7: Comparing Linear Functions and Graphs G8 M6 Lesson 1: Modeling Linear Relationships G8 M6 Lesson 2: Interpreting Rate of Change and Initial Value G8 M6 Lesson 3: Representations of a Line G8 M6 Lesson 10: Linear Models Algebra I M3 Lesson 14: Linear and Exponential Models—Comparing Growth Rates Algebra I M5 Lesson 2: Analyzing a Verbal Description
AI.L.4 Solve linear and quadratic equations and formulas for a specified variable to highlight a quantity of interest, using the same reasoning as in solving equations. (E)	 G8 M4 Lesson 4: Solving a Linear Equation G8 M4 Lesson 6: Solutions of a Linear Equation G8 M4 Lesson 7: Classification of Solutions G8 M4 Lesson 8: Linear Equations in Disguise Algebra I M1 Lesson 12: Solving Equations Algebra I M1 Lesson 13: Some Potential Dangers When Solving Equations Algebra I M1 Lesson 15: Solution Sets of Two or More Equations (or Inequalities) Joined by "And" or "Or" Algebra I M1 Lesson 17: Equations Involving Factored Expressions Algebra I M1 Lesson 19: Rearranging Formulas

for Mathematics	Aligned Components of Eureka Math
AI.L.4 continued	Algebra I M4 Lesson 5: The Zero Product Property
	Algebra I M4 Lesson 6: Solving Basic One-Variable Quadratic Equations
	Algebra I M4 Lesson 7: Creating and Solving Quadratic Equations in One Variable
	Algebra I M4 Lesson 11: Completing the Square
	Algebra I M4 Lesson 12: Completing the Square
	Algebra I M4 Lesson 13: Solving Quadratic Equations by Completing the Square
	Algebra I M4 Lesson 14: Deriving the Quadratic Formula
	Algebra I M4 Lesson 15: Using the Quadratic Formula

Indiana Academic Standards

Systems of Linear Equations and Inequalities

Students represent real-world situations as systems of linear equations and inequalities, using those systems to solve problems.

for Mathematics	Aligned Components of Eureka Math
AI.SEI.1	Algebra I M1 Lesson 21: Solution Sets to Inequalities with Two Variables
Represent real-world problems using linear inequalities in two variables and solve such problems; interpret the solution set, and determine whether it is reasonable. Graph the solutions to a linear inequality in two variables as a half-plane. (E)	

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for Mathematics	

AI.SEI.2	G8 M4 Topic D: Systems of Linear Equations and Their Solutions
Write and graph a system of two linear equations in two variables that represents a real-world problem and solve the problem graphically and algebraically with and without technology. Interpret the solution, and determine whether the solution is reasonable. (E)	Algebra I M1 Lesson 5: Two Graphing Stories Algebra I M1 Lesson 22: Solution Sets to Simultaneous Equations Algebra I M1 Lesson 23: Solution Sets to Simultaneous Equations Algebra I M1 Lesson 24: Applications of Systems of Equations and Inequalities Algebra I M3 Lesson 16: Graphs Can Solve Equations Too
AI.SEI.3 Represent real-world problems using a system of two linear inequalities in two variables. Graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes with and without technology. Interpret the solution set, and determine whether it is reasonable.	Algebra I M1 Lesson 22: Solution Sets to Simultaneous Equations Algebra I M1 Lesson 24: Applications of Systems of Equations and Inequalities

Quadratic and Exponential Equations and Functions

Students represent real-world situations using quadratic and exponential equations and use these equations to solve problems.

Indiana Academic Standards for Mathematics

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AI.QE.1	Algebra I M3 Lesson 3: Arithmetic and Geometric Sequences
Distinguish between situations that can be modeled with linear functions and exponential functions. Understand that linear functions grow by equal differences over equal intervals, and that exponential functions grow by equal factors over equal intervals. Compare linear functions and exponential functions that model real-world situations using tables, graphs, and equations. (E)	Algebra I M3 Lesson 4: Why Do Banks Pay YOU to Provide Their Services?
	Algebra I M3 Lesson 5: The Power of Exponential Growth
	Algebra I M3 Lesson 6: Exponential Growth–U.S. Population and World Population
	Algebra I M3 Lesson 7: Exponential Decay
	Algebra I M3 Lesson 14: Linear and Exponential Models–Comparing Growth Rates
	Algebra I M3 Lesson 21: Comparing Linear and Exponential Models Again
	Algebra I M3 Lesson 22: Modeling an Invasive Species Population
	Algebra I M3 Lesson 23: Newton's Law of Cooling
	Algebra I M5 Lesson 2: Analyzing a Data Set
	Algebra I M5 Lesson 3: Analyzing a Verbal Description
	Algebra I M5 Lesson 5: Modeling from a Sequence
	Algebra I M5 Lesson 6: Modeling a Context from Data
	Algebra I M5 Lesson 8: Modeling a Context from a Verbal Description
	Algebra I M5 Lesson 9: Modeling a Context from a Verbal Description

AI.QE.2	Algebra I M3 Lesson 1: Integer Sequences—Should You Believe in Patterns?
Represent real-world and other mathematical problems that can be modeled with simple exponential functions using tables, graphs, and equations of the form $y = ab^x$ (for integer	Algebra I M3 Lesson 3: Arithmetic and Geometric Sequences
	Algebra I M3 Lesson 4: Why Do Banks Pay YOU to Provide Their Services?
	Algebra I M3 Lesson 5: The Power of Exponential Growth
	Algebra I M3 Lesson 6: Exponential Growth–U.S. Population and World Population
values of $x > 1$, rational values of $b > 0$ and $b \neq 1$) with and without technology:	Algebra I M3 Lesson 7: Exponential Decay
interpret the values of a and b .	Algebra I M3 Lesson 14: Linear and Exponential Models–Comparing Growth Rates
	Algebra I M3 Lesson 21: Comparing Linear and Exponential Models Again
	Algebra I M3 Lesson 22: Modeling an Invasive Species Population
	Algebra I M3 Lesson 23: Newton's Law of Cooling
	Algebra I M5 Topic A: Elements of Modeling
	Algebra I M5 Lesson 4: Modeling a Context from a Graph
	Algebra I M5 Lesson 5: Modeling from a Sequence
	Algebra I M5 Lesson 6: Modeling a Context from Data
	Algebra I M5 Lesson 8: Modeling a Context from a Verbal Description
AI.QE.3	Algebra I M4 Lesson 5: The Zero Product Property
Solve quadratic equations in one	Algebra I M4 Lesson 6: Solving Basic One-Variable Quadratic Equations
variable by inspection (e.g., for $x^2 = 49$), finding square roots, using the quadratic formula, and factoring, as appropriate to the initial form of the equation.	Algebra I M4 Lesson 7: Creating and Solving Quadratic Equations in One Variable
	Algebra I M4 Lesson 13: Solving Quadratic Equations by Completing the Square
	Algebra I M4 Lesson 14: Deriving the Quadratic Formula
	Algebra I M4 Lesson 15: Using the Quadratic Formula

AI.QE.4	Algebra I M4 Lesson 7: Creating and Solving Quadratic Equations in One Variable
Represent real-world problems using quadratic equations in one or two variables and solve such problems with technology. Interpret the solution(s), and determine whether they are	Algebra I M4 Lesson 23: Modeling with Quadratic Functions
	Algebra I M4 Lesson 24: Modeling with Quadratic Functions
	Algebra I M5 Topic A: Elements of Modeling
	Algebra I M5 Lesson 4: Modeling a Context from a Graph
reasonable. (E)	Algebra I M5 Lesson 6: Modeling a Context from Data
	Algebra I M5 Lesson 7: Modeling a Context from Data
	Algebra I M5 Lesson 8: Modeling a Context from a Verbal Description
AI.QE.5	Algebra I M1 Lesson 20: Solution Sets to Equations with Two Variables
Graph exponential and quadratic	Algebra I M3 Lesson 11: The Graph of a Function
functions with and without technology.	Algebra I M3 Lesson 12: The Graph of the Equation $y = f(x)$
such as zeros, lines of symmetry, and	Algebra I M3 Lesson 13: Interpreting the Graph of a Function
extreme values in real-world and other	Algebra I M3 Lesson 14: Linear and Exponential Models–Comparing Growth Rates
mathematical problems involving	Algebra I M3 Topic C: Transformations of Functions
technology; interpret the results in the	Algebra I M3 Lesson 23: Newton's Law of Cooling
real-world contexts.	Algebra I M4 Lesson 8: Exploring the Symmetry in Graphs of Quadratic Functions
	Algebra I M4 Lesson 9: Graphing Quadratic Functions from Factored Form, $f(x) = a(x - m)(x - n)$
	Algebra I M4 Lesson 10: Interpreting Quadratic Functions from Graphs and Tables
	Algebra I M4 Lesson 12: Completing the Square
	Algebra I M4 Lesson 15: Using the Quadratic Formula
	Algebra I M4 Lesson 16: Graphing Quadratic Equations from the Vertex Form, $y = a(x - h)^2 + k$
	Algebra I M4 Lesson 17: Graphing Quadratic Functions from the Standard Form, $f(x) = ax^2 + bx + c$
	Algebra I M4 Lesson 19: Translating Graphs of Functions

for Mathematics	Aligned Components of <i>Eureka Math</i>
AI.QE.5 continued	Algebra I M4 Lesson 20: Stretching and Shrinking Graphs of Functions
	Algebra I M4 Lesson 21: Transformations of the Quadratic Parent Function, $f(x) = x^2$
	Algebra I M4 Lesson 23: Modeling with Quadratic Functions
	Algebra I M5 Lesson 2: Analyzing a Data Set
	Algebra I M5 Lesson 4: Modeling a Context from a Graph
	Algebra I M5 Lesson 6: Modeling a Context from Data
	Algebra I M5 Lesson 7: Modeling a Context from Data
	Algebra I M5 Lesson 9: Modeling a Context from a Verbal Description
AI.QE.6	Algebra I M4 Lesson 5: The Zero Product Property
Describe the relationships among a solution of a quadratic equation, a zero of the function, an <i>x</i> -intercept of the graph, and the factors of the expression. Explain that every quadratic has two complex solutions, which may or may not be real solutions.	Algebra I M4 Lesson 6: Solving Basic One-Variable Quadratic Equations
	Algebra I M4 Lesson 7: Creating and Solving Quadratic Equations in One Variable
	Algebra I M4 Lesson 8: Exploring the Symmetry in Graphs of Quadratic Functions
	Algebra I M4 Lesson 9: Graphing Quadratic Functions from Factored Form, $f(x) = a(x - m)(x - n)$
	Algebra I M4 Lesson 12: Completing the Square
	Algebra I M4 Lesson 13: Solving Quadratic Equations by Completing the Square
	Algebra I M4 Lesson 14: Deriving the Quadratic Formula
	Algebra I M4 Lesson 15: Using the Quadratic Formula
	Algebra I M4 Lesson 16: Graphing Quadratic Equations from the Vertex Form, $y = a(x - h)^2 + k$
	Algebra I M4 Lesson 17: Graphing Quadratic Functions from the Standard Form, $f(x) = ax^2 + bx + c$
	Algebra I M4 Lesson 21: Transformations of the Quadratic Parent Function, $f(x) = x^2$
	Algebra I M4 Lesson 23: Modeling with Quadratic Functions
	Algebra II M1 Lesson 14: Graphing Factored Polynomials
	Algebra II M1 Lesson 38: Complex Numbers as Solutions to Equations

Data Analysis & Statistics

Students utilize and interpret statistical claims.

Indiana Academic Standards for Mathematics

AI.DS.1

Interpret statistics as a process for making inferences about a population based on a random sample from that population. Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each. (E)

Aligned Components of Eureka Math

Algebra II M4 Lesson 12: Types of Statistical Studies Algebra II M4 Lesson 13: Using Sample Data to Estimate a Population Characteristic Algebra II M4 Lesson 14: Sampling Variability in the Sample Proportion Algebra II M4 Lesson 15: Sampling Variability in the Sample Proportion Algebra II M4 Lesson 16: Margin of Error When Estimating a Population Proportion Algebra II M4 Lesson 17: Margin of Error When Estimating a Population Proportion Algebra II M4 Lesson 18: Sampling Variability in the Sample Mean Algebra II M4 Lesson 19: Sampling Variability in the Sample Mean Algebra II M4 Lesson 20: Margin of Error When Estimating a Population Mean Algebra II M4 Lesson 21: Margin of Error When Estimating a Population Mean Algebra II M4 Lesson 23: Experiments and the Role of Random Assignment Algebra II M4 Lesson 24: Differences Due to Random Assignment Alone Algebra II M4 Lesson 25: Ruling Out Chance Algebra II M4 Lesson 26: Ruling Out Chance Algebra II M4 Lesson 27: Ruling Out Chance Algebra II M4 Lesson 28: Drawing a Conclusion from an Experiment Algebra II M4 Lesson 29: Drawing a Conclusion from an Experiment

AI.DS.2	Supplemental material is necessary to address this standard.
Understand that statistics and data are non-neutral and designed to serve a particular interest. Analyze the possibilities for whose interest might be served and how the representations might be misleading. (E)	
AI.DS.3	Algebra I M2 Topic D: Numerical Data on Two Variables
Use technology to find a linear function that models a relationship between two quantitative variables to make predictions and interpret the slope and y-intercept. Using technology, compute and interpret the correlation coefficient. (E)	Algebra I M5 Lesson 4: Modeling a Context from a Graph Algebra I M5 Lesson 7: Modeling a Context from Data
AI.DS.4	Algebra I M2 Topic C: Categorical Data on Two Variables
Summarize bivariate categorical data in two-way frequency tables. Interpret relative frequencies in the contexts of the data (including joint, marginal, and conditional relative frequencies). Recognize possible associations and trends in data.	