

Algebra II | Arkansas Mathematics Standards 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

A2 | Arkansas Mathematics Standards Correlation to Eureka Math

Standards for Mathematical Practice	Aligned Components of Eureka Math
MP.1 Make sense of problems and persevere in solving them.	Lessons in every module engage students in mathematical practices. These are designated in the Module Overview and labeled in lessons.
MP.2 Reason abstractly and quantitatively.	A STORY OF FUNCTIONS Lesson 2 M2 ALGEBRA II
MP.3 Construct viable arguments and critique the reasoning of others.	Opening Exercise Suppose a Ferris wheel has a radius of 50 feet. We will measure the height of a passenger car that starts in the 3 o'clock position with respect to the horizontal line through the center of the wheel. That is, we consider the height of the passenger car at the outset of the problem (that is, after a 0° rotation) to be 0 feet.
MP.4 Model with mathematics.	a. Mark the diagram to show the position of a passenger car at 30-degree intervals as it rotates counterclockwise around the Ferris wheel.
Use appropriate tools strategically.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
MP.6 Attend to precision.	210 -30 -30 -40 -40 -270 -300 -300 -300 -300 -300 -300 -300 -3
MP.7	
Look for and make use of structure.	
MP.8	
Look for and express regularity in repeated reasoning.	

A2 | Arkansas Mathematics Standards Correlation to Eureka Math

Radicals and Complex Numbers

Radical Expressions and Rational Exponents Students apply properties to radical expressions and rational exponents.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.RC.1 Explain how extending the properties of integer exponents to rational exponents provides an alternative notation for radicals.	Algebra II M3 Lesson 3: Rational Exponents Algebra II M3 Lesson 4: Properties of Exponents and Radicals Algebra II M3 Lesson 5: Irrational Exponents
A2.RC.2	Algebra II M3 Lesson 1: Integer Exponents
Apply the properties of exponents	Algebra II M3 Lesson 2: Base 10 and Scientific Notation
to translate between radical and	Algebra II M3 Lesson 3: Rational Exponents
exponential forms of expressions.	Algebra II M3 Lesson 4: Properties of Exponents and Radicals
A2.RC.3	Algebra II M1 Lesson 9: Radicals and Conjugates
Simplify and perform operations with	Algebra II M3 Lesson 1: Integer Exponents
radical expressions with and without	Algebra II M3 Lesson 2: Base 10 and Scientific Notation
variables; rationalizing denominators	Algebra II M3 Lesson 3: Rational Exponents
should include conjugates.	Algebra II M3 Lesson 4: Properties of Exponents and Radicals

A2 | Arkansas Mathematics Standards Correlation to Eureka Math

Radicals and Complex Numbers

Complex Numbers

Students apply properties to complex numbers.

Arkansas Mathematics Standards

Aligned Components of Eureka Math

A2.RC.4 Know there is a complex number <i>i</i> and describe contexts from which complex numbers appear.	Algebra II M1 Topic D: A Surprise from Geometry–Complex Numbers Overcome All Obstacles
A2.RC.5 Perform the operations of addition, subtraction, multiplication, and conjugation of complex numbers.	Algebra II M1 Lesson 37: A Surprising Boost from Geometry Precalculus and Advanced Topics M1 Lesson 4: An Appearance of Complex Numbers Precalculus and Advanced Topics M1 Lesson 5: An Appearance of Complex Numbers Precalculus and Advanced Topics M1 Lesson 7: Complex Number Division Precalculus and Advanced Topics M1 Lesson 8: Complex Number Division Precalculus and Advanced Topics M1 Lesson 9: The Geometric Effect of Some Complex Arithmetic Precalculus and Advanced Topics M1 Lesson 17: The Geometric Effect of Multiplying by a Reciprocal
A2.RC.6 Use polynomial identities with complex numbers.	Algebra II M1 Lesson 39: Factoring Extended to the Complex Realm Precalculus and Advanced Topics M3 Lesson 1: Solutions to Polynomial Equations Precalculus and Advanced Topics M3 Lesson 2: Does Every Complex Number Have a Square Root? Precalculus and Advanced Topics M3 Lesson 3: Roots of Unity

Functions

Compositions

Students compose and compare functions.

Arkansas	Mathematics	Standards
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Aligned Components of Eureka Math

A2.FN.1	Algebra II M2 Lesson 12: Ferris Wheels–Using Trigonometric Functions to Model Cyclical Behavior
Combine functions by addition, subtraction, multiplication, division, and composition to model the relationship between two quantities in mathematical and real-world contexts.	Algebra II M3 Lesson 28: Newton's Law of Cooling, Revisited
	Algebra II M3 Lesson 30: Buying a Car
	Algebra II M3 Lesson 33: The Million Dollar Problem
	Precalculus and Advanced Topics M3 Lesson 16: Function Composition
	Precalculus and Advanced Topics M3 Lesson 17: Solving Problems by Functions Composition
	Precalculus and Advanced Topics M4 Lesson 6: Waves, Sinusoids, and Identities
	Supplemental material is necessary to address combining functions by addition, subtraction, multiplication, and division in mathematical contexts.

Functions

Transformations Students perform transformations in the coordinate plane.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.FN.2 Decide if a function is even or odd from a graph or an algebraic expression.	Algebra II M2 Lesson 8: Graphing the Sine and Cosine Functions Algebra II M2 Lesson 10: Basic Trigonometric Identities from Graphs Algebra II M2 Lesson 14: Graphing the Tangent Function Precalculus and Advanced Topics M3 Lesson 12: End Behavior of Rational Functions
A2.FN.3 Explain how restricting the domain of a function allows the creation of its inverse.	Precalculus and Advanced Topics M3 Lesson 19: Restricting the Domain

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.FN.4	Algebra II M3 Lesson 18: Graphs of Exponential Functions and Logarithmic Functions
Write and graph the inverse of a given function; understand that the graph of an inverse function is a reflection of the function over the line $y = x$.	Algebra II M3 Lesson 19: The Inverse Relationship Between Logarithmic and Exponential Functions Precalculus and Advanced Topics M3 Topic C: Inverse Functions

Linear Functions and Equations

Arithmetic Sequences

Students use arithmetic sequences to model problems.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.LFE.1	Algebra I M3 Lesson 1: Integer Sequences—Should You Believe in Patterns?
Write and use arithmetic sequences recursively and explicitly to model situations; translate between the two forms when given a graph, a description of the relationship, or two input-output pairs.	Algebra I M3 Lesson 2: Recursive Formulas for Sequences Algebra I M3 Lesson 3: Arithmetic and Geometric Sequences Algebra I M5 Lesson 5: Modeling from a Sequence

Linear Functions and Equations

Matrices

Students perform operations and matrices.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.LFE.2	Precalculus and Advanced Topics M2 Lesson 2: Networks and Matrix Arithmetic
Multiply a matrix by a scalar.	Precalculus and Advanced Topics M2 Lesson 3: Matrix Arithmetic in Its Own Right
	Precalculus and Advanced Topics M2 Lesson 4: Linear Transformations Review
	Precalculus and Advanced Topics M2 Lesson 6: Linear Transformations as Matrices
	Precalculus and Advanced Topics M2 Lesson 26: Projecting a 3-D Object onto a 2-D Plane
	Precalculus and Advanced Topics M2 Lesson 27: Designing Your Own Game
A2.LFE.3	Precalculus and Advanced Topics M1 Lesson 25: Matrix Multiplication and Addition
Add and subtract matrices.	Precalculus and Advanced Topics M2 Lesson 2: Networks and Matrix Arithmetic
	Precalculus and Advanced Topics M2 Lesson 11: Matrix Addition Is Commutative

Linear Functions and Equations

Systems of Equations Students solve systems of equations.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.LFE.4	Algebra II M1 Lesson 30: Linear Systems in Three Variables
Solve systems of linear equations in three variables using matrices; use Gaussian	Precalculus and Advanced Topics M2 Lesson 15: Solving Equations Involving Linear Transformations of the Coordinate Space
elimination or technology.	Precalculus and Advanced Topics M2 Lesson 16: Solving General Systems of Linear Equations

Quadratic Functions, Equations and Inequalities

Create & Solve

Students create and solve problems that model quadratic relationships.

Arkansas Mathematics Standards	Aligned Components of <i>Eureka Math</i>
A2.QFE.1	Algebra I M4 Lesson 8: Exploring the Symmetry in Graphs of Quadratic Functions
Calculate and interpret the	Algebra I M4 Lesson 10: Interpreting Quadratic Functions from Graphs and Tables
of a quadratic function represented	Algebra I M4 Lesson 17: Graphing Quadratic Functions from the Standard Form, $f(x) = ax^2 + bx + c$
in a table, graph, or as an equation in the context of mathematical and	Algebra I M4 Lesson 22: Comparing Quadratic, Square Root, and Cube Root Functions Represented in Different Ways
real-world problems.	Algebra I M5 Lesson 4: Modeling a Context from a Graph
A2.QFE.2	Algebra II M1 Lesson 38: Complex Numbers as Solutions to Equations
Solve quadratic equations with complex number solutions.	Algebra II M1 Lesson 39: Factoring Extended to the Complex Realm
A2.QFE.3	Supplemental material is necessary to address this standard.
Represent and solve real-world problems using quadratic inequalities.	

Quadratic Functions, Equations and Inequalities

Graph & Key Features

Students graph and interpret key features of equations that model quadratic relationships.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.QFE.4	Algebra I M4 Lesson 15: Using the Quadratic Formula
Use the discriminant to determine the number and type of solutions of a quadratic equation.	

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.QFE.5	Algebra I M4 Lesson 8: Exploring the Symmetry in Graphs of Quadratic Functions
Sketch the graph of a quadratic function	Algebra I M4 Lesson 9: Graphing Quadratic Functions from Factored Form, $f(x) = a(x - m)(x - n)$
given a verbal description and show key features.	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 23: Modeling with Quadratic Functions
	Algebra I M5 Lesson 2: Analyzing a Data Set
	Algebra I M5 Lesson 6: Modeling a Context from Data
	Algebra I M5 Lesson 7: Modeling a Context from Data

Quadratic Functions, Equations and Inequalities

Systems of Equations

Students solve systems of equations.

Arkansas Mathematics Standard	s Aligned Components of <i>Eureka Math</i>
A2.QFE.6	Algebra II M1 Lesson 31: Systems of Equations
Solve a system of equations consisting of a linear equation and a nonlinear equation in two variables by choosing substitution or graphically (with or without technology) as appropriate for the system of equations.	Algebra II M1 Lesson 32: Graphing Systems of Equations

Exponential & Logarithmic Functions & Equations

Create & Solve

Students create and solve problems that model exponential and logarithmic relationships.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.ELF.1 Use the properties of exponents to find equivalent expressions and to solve equations, including those involving rational exponents.	Algebra II M3 Lesson 1: Integer Exponents Algebra II M3 Lesson 2: Base 10 and Scientific Notation Algebra II M3 Lesson 3: Rational Exponents Algebra II M3 Lesson 4: Properties of Exponents and Radicals
A2.ELF.2 Write and solve equations from real-world problems that can be represented as a logarithmic or exponential function in one variable.	Algebra II M3 Lesson 24: Solving Exponential Equations Precalculus and Advanced Topics M3 Lesson 20: Inverses of Logarithmic and Exponential Functions Precalculus and Advanced Topics M3 Lesson 21: Logarithmic and Exponential Problem Solving
A2.ELF.3 Write exponential equations that model the relationship between two quantities when given a graph, a written description, or a table of values within a mathematical or real-world context.	Algebra II M3 Lesson 1: Integer Exponents Algebra II M3 Lesson 6: Euler's Number, <i>e</i> Algebra II M3 Lesson 22: Choosing a Model Algebra II M3 Lesson 23: Bean Counting Algebra II M3 Lesson 24: Solving Exponential Equations Algebra II M3 Lesson 27: Modeling with Exponential Functions Algebra II M3 Lesson 28: Newton's Law of Cooling, Revisited
A2.ELF.4 Write and use geometric sequences recursively and explicitly to model situations; translate between the two forms when given a graph, a description of the relationship, or two input-output pairs.	Algebra I M3 Lesson 3: Arithmetic and Geometric Sequences Algebra II M3 Lesson 25: Geometric Sequences and Exponential Growth and Decay Algebra II M3 Lesson 26: Percent Rate of Change Algebra II M3 Lesson 29: The Mathematics Behind a Structured Savings Plan

Exponential & Logarithmic Functions & Equations

Logarithms

Students define and use logarithms.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.ELF.5 Translate between logarithmic and exponential forms of an equation.	Algebra II M3 Lesson 14: Solving Logarithmic Equations Algebra II M3 Lesson 24: Solving Exponential Equations Precalculus and Advanced Topics M3 Lesson 21: Logarithmic and Exponential Problem Solving
A2.ELF.6 Use properties of logarithms to simplify and evaluate logarithmic expressions, with or without technology.	Algebra II M3 Lesson 11: The Most Important Property of Logarithms Algebra II M3 Lesson 12: Properties of Logarithms Algebra II M3 Lesson 13: Changing the Base
A2.ELF.7 Use the inverse relationship between exponents and logarithms to solve problems.	Algebra II M3 Lesson 24: Solving Exponential Equations Precalculus and Advanced Topics M3 Lesson 20: Inverses of Logarithmic and Exponential Functions Precalculus and Advanced Topics M3 Lesson 21: Logarithmic and Exponential Problem Solving

Exponential & Logarithmic Functions & Equations

Graph & Key Features

Students graph and interpret key features of exponential and logarithmic models.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.ELF.8	Algebra II M3 Lesson 17: Graphing the Logarithm Function
Determine the domain and range of logarithmic functions in mathematical problems.	Algebra II M3 Lesson 18: Graphs of Exponential Functions and Logarithmic Functions Algebra II M3 Lesson 20: Transformations of the Graphs of Logarithmic and Exponential Functions

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.ELF.13	Algebra II M3 Lesson 20: Transformations of the Graphs of Logarithmic and Exponential Functions
Graph and generalize the effect of transformations on exponential and logarithmic functions.	
A2.ELF.14	Algebra II M3 Lesson 20: Transformations of the Graphs of Logarithmic and Exponential Functions
Given the graphs of exponential and logarithmic functions, explain the effects of the transformation from the parent function.	

Create & Solve

Students create and solve rational and polynomial equations.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.PRF.1	Algebra II M1 Lesson 27: Word Problems Leading to Rational Equations
Write and solve equations from real-world problems that can be represented as a rational or square root function in one variable.	Algebra II M1 Lesson 29: Solving Radical Equations
A2.PRF.2	Algebra I M1 Lesson 19: Rearranging Formulas
Solve nonlinear formulas for a specified variable.	

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.PRF.3	Algebra II M1 Lesson 11: The Special Role of Zero in Factoring
Find zeros of polynomial functions with a degree of 3 or higher when suitable factorizations are available in a real-world and mathematical context.	
A2.PRF.4	Algebra II M1 Lesson 14: Graphing Factored Polynomials
Use zeros and an understanding of multiplicity to sketch a graph of a polynomial function with a degree of 3 or higher.	Algebra II M1 Lesson 15: Structure in Graphs of Polynomial Functions
A2.PRF.5	Algebra II M1 Lesson 40: Obstacles Resolved—A Surprising Result
Apply the Fundamental Theorem of Algebra to determine the number and potential types of roots of polynomial functions based on the degree of the polynomial.	Precalculus and Advanced Topics M3 Lesson 1: Solutions to Polynomial Equations
A2.PRF.6	Algebra II M1 Lesson 26: Solving Rational Equations
Solve rational and radical equations	Algebra II M1 Lesson 27: Word Problems Leading to Rational Equations
containing one variable specifying extraneous solutions	Algebra II M1 Lesson 28: A Focus on Square Roots
	Algebra II M1 Lesson 29: Solving Radical Equations

Graph & Key Features

Students graph and identify key features of functions.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.PRF.7	Algebra II M1 Lesson 15: Structure in Graphs of Polynomial Functions
Determine the domain and range of polynomial and rational functions in mathematical problems.	Algebra II M1 Lesson 16: Modeling with Polynomials—An Introduction
	Precalculus and Advanced Topics M3 Lesson 11: Rational Functions
	Precalculus and Advanced Topics M3 Lesson 13: Horizontal and Vertical Asymptotes of Graphs of Rational Functions
	Precalculus and Advanced Topics M3 Lesson 14: Graphing Rational Functions
	Supplemental material is necessary to address determining the domain and range of polynomial functions in mathematical problems.
A2.PRF.8	Algebra II M1 Lesson 16: Modeling with Polynomials—An Introduction
Determine reasonable domain and range values of polynomial and rational functions representing real-world situations, both continuous and discrete; interpret the solution as reasonable or unreasonable in context.	Algebra II M1 Lesson 17: Modeling with Polynomials—An Introduction
A2.PRF.9	Algebra II M1 Lesson 16: Modeling with Polynomials—An Introduction
Interpret the key features of polynomial functions that model a relationship between two quantities in a given context; translate between different representations of the function, especially graphs, tables, and equations.	Algebra II M1 Lesson 17: Modeling with Polynomials—An Introduction

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.PRF.10	Algebra II M1 Lesson 15: Structure in Graphs of Polynomial Functions
Sketch the graph of a polynomial function given a verbal description and show key features.	Algebra II M1 Lesson 16: Modeling with Polynomials—An Introduction
	Algebra II M1 Lesson 17: Modeling with Polynomials—An Introduction
A2.PRF.11	Supplemental material is necessary to address this standard.
Calculate and interpret the average rate of change of polynomial functions represented in a table, graph, or as an equation in context of mathematical and real-world problems.	
A2.PRF.12	Algebra II M1 Lesson 15: Structure in Graphs of Polynomial Functions
Graph functions with and without	Algebra II M1 Lesson 16: Modeling with Polynomials—An Introduction
context, identifying key features	Algebra II M3 Lesson 16: Rational and Irrational Numbers
given context.	Precalculus and Advanced Topics M3 Lesson 12: End Behavior of Rational Functions
	Precalculus and Advanced Topics M3 Lesson 13: Horizontal and Vertical Asymptotes of Graphs of Rational Functions
	Precalculus and Advanced Topics M3 Lesson 14: Graphing Rational Functions
	Precalculus and Advanced Topics M3 Lesson 15: Transforming Rational Functions
A2.PRF.13	Algebra I M4 Lesson 19: Translating Graphs of Functions
Graph and generalize the effect of transformations on square root, cubic, and rational functions.	Algebra I M4 Lesson 20: Stretching and Shrinking Graphs of Functions
	Precalculus and Advanced Topics M3 Lesson 15: Transforming Rational Functions
A2.PRF.14	Algebra I M4 Lesson 19: Translating Graphs of Functions
Given a graph, explain the effects of the	Algebra I M4 Lesson 20: Stretching and Shrinking Graphs of Functions
transformation from the parent function.	Precalculus and Advanced Topics M3 Lesson 15: Transforming Rational Functions

Factor Polynomials

Students factor polynomials.

Arkansas Mathematics Standards

Aligned Components of Eureka Math

A2.PRF.15	Algebra II M1 Lesson 19: The Remainder Theorem
Apply the Remainder Theorem to factor and create equivalent forms of polynomial functions.	
A2.PRF.16	Algebra II M1 Lesson 2: The Multiplication of Polynomials
Verify polynomial identities and use them to describe numerical relationships.	Algebra II M1 Lesson 3: The Division of Polynomials
	Algebra II M1 Lesson 6: Dividing by $x - a$ and by $x + a$
	Algebra II M1 Lesson 7: Mental Math
	Algebra II M1 Lesson 8: The Power of Algebra—Finding Primes
	Algebra II M1 Lesson 10: The Power of Algebra–Finding Pythagorean Triples

Polynomial, Rational, & Other Functions & Equations

Rational Expressions

Students perform operations on rational expressions.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.PRF.17	Algebra II M1 Lesson 24: Multiplying and Dividing Rational Expressions
Apply understanding of rational number operations to add, subtract, multiply, and divide by nonzero rational expressions.	Algebra II M1 Lesson 25: Adding and Subtracting Rational Expressions Precalculus and Advanced Topics M3 Lesson 10: The Structure of Rational Expressions

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.PRF.18	Algebra II M1 Lesson 4: Comparing Methods–Long Division, Again?
Rewrite simple rational expressions in different forms.	Algebra II M1 Lesson 18: Overcoming a Second Obstacle in Factoring–What If There Is a Remainder?
	Algebra II M1 Lesson 22: Equivalent Rational Expressions
A2.PRF.19	Algebra II M1 Lesson 3: The Division of Polynomials
Divide polynomial expressions using inspection, long division, and synthetic division, with and without a remainder.	Algebra II M1 Lesson 4: Comparing Methods–Long Division, Again?
	Algebra II M1 Lesson 5: Putting It All Together
	Algebra II M1 Lesson 6: Dividing by $x - a$ and by $x + a$
	Supplemental material is necessary to address dividing polynomial expressions using synthetic division.

Systems of Equations

Students solve systems of equations.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.PRF.20	Algebra I M3 Lesson 16: Graphs Can Solve Equations Too
Explain why a solution to the equation f(x) = g(x) is the x-coordinate where the y-coordinate of $f(x)$ and $g(x)$ are the same using graphs, tables, or approximations.	Algebra II M1 Lesson 36: Overcoming a Third Obstacle to Factoring—What If There Are No Real Number Solutions? Algebra II M3 Lesson 24: Solving Exponential Equations

Statistics & Probability

Statistical Experiments & Studies

Students evaluate processes for statistical experiments, make inferences, and justify conclusions from statistical studies.

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.SP.1	Algebra II M4 Lesson 13: Using Sample Data to Estimate a Population Characteristic
Use data from a random sample to make inferences about a population.	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
A2.SP.2	Supplemental material is necessary to address this standard.
Compare theoretical and empirical probabilities using simulations.	
A2.SP.3	Algebra II M4 Lesson 12: Types of Statistical Studies
Distinguish between sample surveys, experiments, and observational studies and explain the purpose of randomization in statistical studies.	
A2.SP.4	This standard is addressed by the lessons aligned to its subsections.
Read and explain, in context, the validity of data from outside reports by:	

Arkansas Mathematics Standards	Aligned Components of Eureka Math
A2.SP.4.1 Identifying the variables as quantitative or categorical.	Algebra II M4 Lesson 22: Evaluating Reports Based on Data from a Sample
A2.SP.4.2 Describing how the data was collected.	Algebra II M4 Lesson 22: Evaluating Reports Based on Data from a Sample
A2.SP.4.3 Indicating any potential biases or flaws.	Supplemental material is necessary to address this standard.
A2.SP.4.4 Identifying inferences the author of the report made from sample data.	Algebra II M4 Lesson 22: Evaluating Reports Based on Data from a Sample