



## Grade K | Arizona Mathematics Standards Correlation to Eureka Math<sup>2™</sup>

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*<sup>2™</sup>, 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*<sup>2</sup> 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 Math<sup>2</sup> 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*<sup>2</sup> 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 Math<sup>2</sup>

Lessons in every module engage students in mathematical practices.  These are indicated in margin notes included with every lesson.
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### **Counting and Cardinality**

K.CC.A Know number names and the count sequence.

#### **Arizona Mathematics Standards**

### Aligned Components of Eureka Math<sup>2</sup>

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Count to 100 by ones and by tens.

K M1 Lesson 4: Classify objects into three categories and count.

K M1 Lesson 6: Organize, count, and represent a collection of objects.

K M1 Lesson 12: Write numerals 4 and 5 to answer how many questions.

K M1 Lesson 19: Organize, count, and represent a collection of objects.

K M1 Lesson 26: Write numeral 8.

K M1 Lesson 28: Order numerals 1-10 and reason about an unknown number in the number sequence.

K M1 Lesson 33: Organize, count, and represent a collection of objects.

K M6 Lesson 2: Find 10 ones in a teen number.

K M6 Lesson 5: Reason about a number's position in the number sequence.

K M6 Lesson 14: Count by tens.

K M6 Lesson 15: Count by tens by using math tools.

K M6 Lesson 16: Use the structure of ten to count to 100.

K M6 Lesson 17: Use patterns in the number sequence to count by ones within 100.

K M6 Lesson 18: Count within and across decades when counting by ones, part 1.

K M6 Lesson 19: Count within and across decades when counting by ones, part 2.

#### K.CC.A.2

Count forward from a given number other than one, within the known sequence (e.g., "Starting at the number 5, count up to 11.").

K M5 Lesson 18: Count starting from a number other than 1 to find the total.

K M5 Lesson 22: Identify and extend linear patterns.

K M5 Lesson 23: Use a pattern to make a prediction.

K M6 Lesson 5: Reason about a number's position in the number sequence.

K M6 Lesson 16: Use the structure of ten to count to 100.

K M6 Lesson 17: Use patterns in the number sequence to count by ones within 100.

K M6 Lesson 18: Count within and across decades when counting by ones, part 1.

K M6 Lesson 19: Count within and across decades when counting by ones, part 2.

### Aligned Components of Eureka Math<sup>2</sup>

#### K.CC.A.3

Write numbers from 0 to 20. Represent a number of objects with a written numeral 0 to 20 (with 0 representing a count of no objects).

K M1 Lesson 5: Classify objects into three categories, count, and match to a numeral.

K M1 Lesson 7: Practice counting accurately.

K M1 Lesson 11: Write numerals 1-3 to answer how many questions.

K M1 Lesson 12: Write numerals 4 and 5 to answer how many questions.

K M1 Lesson 14: Understand the meaning of zero and write the numeral.

K M1 Lesson 21: Count sets in circular configurations and match to a numeral.

K M1 Lesson 22: Count sets in scattered configurations and match to a numeral.

K M1 Lesson 25: Write numerals 6 and 7.

K M1 Lesson 26: Write numeral 8.

K M1 Lesson 27: Write numerals 9 and 10.

K M6 Lesson 3: Write numerals 11-20.

K M6 Lesson 17: Use patterns in the number sequence to count by ones within 100.

### **Counting and Cardinality**

K.CC.B Count to tell the number of objects.

#### **Arizona Mathematics Standards**

## Aligned Components of Eureka Math<sup>2</sup>

#### K.CC.B.4

Understand the relationship between numbers and quantities; connect counting to cardinality. This standard is fully addressed by the lessons aligned to its subsections.

### Aligned Components of Eureka Math<sup>2</sup>

#### K.CC.B.4a

When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object (one to one correspondence).

K M1 Lesson 6: Organize, count, and represent a collection of objects.

K M1 Lesson 7: Practice counting accurately.

K M1 Lesson 13: Count out enough objects and write the numeral.

K M1 Lesson 19: Organize, count, and represent a collection of objects.

K M1 Lesson 33: Organize, count, and represent a collection of objects.

#### K.CC.B.4b

Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted (cardinality). K M1 Lesson 6: Organize, count, and represent a collection of objects.

K M1 Lesson 7: Practice counting accurately.

K M1 Lesson 9: Conserve number regardless of the arrangement of objects.

K M1 Lesson 13: Count out enough objects and write the numeral.

K M1 Lesson 19: Organize, count, and represent a collection of objects.

K M1 Lesson 20: Count objects in 5-group and array configurations and match to a numeral.

K M1 Lesson 23: Conserve number regardless of the order in which objects are counted.

K M1 Lesson 33: Organize, count, and represent a collection of objects.

#### K.CC.B.4c

Understand that each successive number name refers to a quantity that is one larger (hierarchical inclusion).

K M1 Lesson 29: Model the pattern of 1 more in the forward count sequence.

K M1 Lesson 30: Build number stairs to show the pattern of  $1\ \mathrm{more}$  in the forward count sequence.

K M1 Lesson 31: Model the pattern of 1 less in the backward count sequence.

K M1 Lesson 32: Build number stairs to show the pattern of 1 less in the backward count sequence.

K M6 Lesson 4: Order numerals 0-20.

### Aligned Components of Eureka Math<sup>2</sup>

#### K.CC.B.5

Count to answer questions about "How many?" when 20 or fewer objects are arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1 to 20, count out that many objects.

K M1 Lesson 3: Classify objects into two categories and count.

K M1 Lesson 6: Organize, count, and represent a collection of objects.

K M1 Lesson 7: Practice counting accurately.

K M1 Lesson 8: Count sets in linear, array, and scattered configurations.

K M1 Lesson 10: Count out a group of objects to match a numeral.

K M1 Lesson 19: Organize, count, and represent a collection of objects.

K M1 Lesson 20: Count objects in 5-group and array configurations and match to a numeral.

K M1 Lesson 21: Count sets in circular configurations and match to a numeral.

K M1 Lesson 22: Count sets in scattered configurations and match to a numeral.

K M1 Lesson 24: Count out a group of objects to match a numeral.

K M1 Lesson 33: Organize, count, and represent a collection of objects.

K M6 Lesson 1: Describe teen numbers as 10 ones and \_\_\_ ones.

K M6 Lesson 6: Count out a group of objects to match a numeral.

K M6 Lesson 7: Decompose numbers 10-20 with 10 as a part.

K M6 Lesson 12: Investigate different ways to decompose teen numbers.

### **Counting and Cardinality**

K.CC.C Compare numbers.

#### **Arizona Mathematics Standards**

## Aligned Components of Eureka Math<sup>2</sup>

#### K.CC.C.6

Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group.

K M3 Lesson 12: Relate more and fewer to length.

K M3 Lesson 13: Compare sets by using more than, fewer than, and the same number as.

K M3 Lesson 14: Use number to compare sets with like units.

K M3 Lesson 16: Count and compare sets with unlike units.

K M3 Lesson 17: Count and compare sets in pictures.

## Aligned Components of Eureka Math<sup>2</sup>

K.CC.C.6 continued	K M3 Lesson 21: Describe and compare several measurable attributes of objects and sets.
	K M6 Lesson 20: Compare totals in story situations.
	K M6 Lesson 21: Count and compare sets with more than 10 objects.
	K M6 Lesson 22: Compare area by comparing number.
	K M6 Lesson 23: Compare lengths of objects by using 10-sticks and individual cubes.
K.CC.C.7	K M3 Lesson 18: Compare the capacity of containers by using numerals.
Compare two numbers between $0\ \mathrm{and}\ 10$ presented as written numerals.	K M3 Lesson 19: Compare numbers by using greater than, less than, and equal to.
	K M3 Lesson 20: Compare two numbers in story situations.

### **Operations and Algebraic Thinking**

K.OA.A Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.

### **Arizona Mathematics Standards**

## Aligned Components of Eureka Math<sup>2</sup>

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K.OA.A.1	K M4 Lesson 4: Decompose a group and record parts and total by using a number bond.
Represent addition and subtraction concretely.	K M4 Lesson 6: Decompose a number in more than one way and record.
	K M4 Lesson 7: Find partners to 5.
	K M4 Lesson 10: Sort and record the decomposition with a number bond.
	K M4 Lesson 11: Model put together with total unknown story problems.
	K M4 Lesson 15: Choose a math tool to solve take apart with both addends unknown situations.
	K M5 Topic A: Represent Addition
	K M5 Topic B: Represent Subtraction
	K M5 Lesson 15: Identify the action in a problem to represent and solve it.
	K M5 Lesson 16: Relate addition and subtraction through word problems.
	K M5 Lesson 19: Represent and solve take from with change unknown problems.

# Aligned Components of Eureka Math<sup>2</sup>

K.OA.A.1 continued	K M5 Lesson 21: Organize drawings to solve problems efficiently.
iconini commuca	K M5 Lesson 24: Solve story problems by using repeated reasoning.
	K M5 Lesson 26: Reason about numbers to add and subtract.
K.OA.A.2	K M4 Lesson 11: Model put together with total unknown story problems.
Solve addition and subtraction word	K M4 Lesson 12: Draw to represent put together with total unknown story problems.
problems and add and subtract within $10$ .	K M4 Lesson 13: Choose a math tool to solve <i>put together with total unknown</i> story problems.
	K M4 Lesson 14: Model take apart with both addends unknown situations.
	K M4 Lesson 15: Choose a math tool to solve take apart with both addends unknown situations.
	K M4 Lesson 16: Compose and decompose numbers and shapes.
	K M5 Lesson 3: Represent and solve add to with result unknown story problems.
	K M5 Lesson 10: Represent and solve take from with result unknown story problems.
	K M5 Lesson 12: Relate parts to total in subtraction situations.
	K M5 Lesson 15: Identify the action in a problem to represent and solve it.
	K M5 Lesson 16: Relate addition and subtraction through word problems.
	K M5 Lesson 17: Reason about different units to solve story problems.
	K M6 Lesson 8: Represent teen number compositions and decompositions as addition sentences.
	K M6 Lesson 9: Represent teen number decompositions as subtraction sentences.
	K M6 Lesson 10: Make sense of word problems involving teen numbers.
	K M6 Lesson 11: Represent teen number decompositions as $10$ ones and some ones and find a hidden part.

### Aligned Components of Eureka Math<sup>2</sup>

K.OA.A.3	K M4 Lesson 6: Decompose a number in more than one way and record.
Decompose numbers less than or equal	K M4 Lesson 7: Find partners to 5.
to 10 into pairs in more than one way (e.g., using fingers, objects, symbols, tally	K M4 Lesson 8: Find partners to 10.
marks, drawings, expressions).	K M4 Lesson 18: Use the structure of 5 and 10 to build a rekenrek.
	K M5 Lesson 4: Represent decomposition situations by using number bonds and addition sentences.
K.OA.A.4	K M5 Lesson 20: Find the number that makes $10$ and record with a number sentence.
For any number from 1 to 9, find the number that makes 10 when added to the given number (e.g., using fingers, objects, symbols, tally marks, drawings, or equation).	K M5 Lesson 26: Reason about numbers to add and subtract.
K.OA.A.5	K M5 Lesson 7: Find the total in an addition sentence.
Fluently add and subtract within 5.	K M5 Lesson 14: Find the difference in a subtraction sentence.

### **Number and Operations in Base Ten**

K.NBT.A Work with numbers 11 to 19 to gain foundations for place value.

#### **Arizona Mathematics Standards**

## Aligned Components of Eureka Math<sup>2</sup>

#### K.NBT.A.1

Compose and decompose numbers from 11 to 19 into ten ones and additional ones by using objects, drawings and/or equations. Understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones (e.g., 18 = 10 + 8).

K M6 Lesson 1: Describe teen numbers as 10 ones and \_\_\_ ones.

K M6 Lesson 2: Find 10 ones in a teen number.

K M6 Lesson 3: Write numerals 11-20.

K M6 Lesson 4: Order numerals 0-20.

K M6 Lesson 6: Count out a group of objects to match a numeral.

K M6 Lesson 7: Decompose numbers 10-20 with 10 as a part.

K M6 Lesson 8: Represent teen number compositions and decompositions as addition sentences.

### Aligned Components of Eureka Math<sup>2</sup>

K.NBT.A.1 continued	K M6 Lesson 9: Represent teen number decompositions as subtraction sentences.
	K M6 Lesson 10: Make sense of word problems involving teen numbers.
	K M6 Lesson 11: Represent teen number decompositions as $10$ ones and some ones and find a hidden part.

### **Number and Operations in Base Ten**

K.NBT.B Use place value understanding and properties of operations to add and subtract.

#### **Arizona Mathematics Standards**

### Aligned Components of Eureka Math<sup>2</sup>

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Demonstrate understanding of addition and subtraction within  $10\ \mathrm{using}$  place value.

K M4 Lesson 4: Decompose a group and record parts and total by using a number bond.

K M4 Lesson 6: Decompose a number in more than one way and record.

K M4 Lesson 7: Find partners to 5.

K M4 Lesson 10: Sort and record the decomposition with a number bond.

K M4 Lesson 11: Model put together with total unknown story problems.

K M4 Lesson 15: Choose a math tool to solve take apart with both addends unknown situations.

K M5 Topic A: Represent Addition

K M5 Topic B: Represent Subtraction

K M5 Lesson 15: Identify the action in a problem to represent and solve it.

K M5 Lesson 16: Relate addition and subtraction through word problems.

K M5 Lesson 19: Represent and solve take from with change unknown problems.

K M5 Lesson 21: Organize drawings to solve problems efficiently.

K M5 Lesson 24: Solve story problems by using repeated reasoning.

K M5 Lesson 26: Reason about numbers to add and subtract.

#### **Measurement and Data**

K.MD.A Describe and compare measurable attributes.

### **Arizona Mathematics Standards**

## Aligned Components of Eureka Math<sup>2</sup>

<b>K.MD.A.1</b> Describe measurable attributes of a single object (e.g., length and weight).	<ul> <li>K M3 Lesson 2: Compare lengths of simple straight objects by using longer than, shorter than, and about the same length as.</li> <li>K M3 Lesson 7: Compare weights by using heavier than, lighter than, and about the same weight as.</li> <li>K M3 Lesson 12: Relate more and fewer to length.</li> <li>K M3 Lesson 21: Describe and compare several measurable attributes of objects and sets.</li> </ul>
K.MD.A.2	K M3 Topic A: Compare Heights and Lengths
Directly compare two objects with a measurable attribute in common to see which object has "more of" or "less of" the attribute, and describe the difference (e.g., directly compare the length of 10 cubes to a pencil and describe one as longer or shorter).	K M3 Topic B: Compare Weights K M3 Lesson 21: Describe and compare several measurable attributes of objects and sets.

### **Measurement and Data**

K.MD.B Classify objects and count the number of objects in each category.

### **Arizona Mathematics Standards**

## Aligned Components of Eureka Math<sup>2</sup>

K.MD.B.3	K M1 Topic A: Classify to Make Categories and Count
Classify objects into given categories; count the number in each category and sort the categories by count.	K M1 Lesson 15: Sort the same group of objects in more than one way and count.  K M1 Lesson 16: Decompose a set shown in a picture.  K M3 Lesson 15: Classify flat shapes into groups and compare the number of shapes in each group.

## Geometry

### K.G.A Identify and describe shapes.

### **Arizona Mathematics Standards**

# Aligned Components of Eureka Math<sup>2</sup>

K.G.A.1	K M2 Lesson 2: Classify shapes as triangles or nontriangles.
Describe objects in the environment	K M2 Lesson 3: Classify shapes as circles, hexagons, or neither.
using names of shapes, and describe the relative positions of these objects using	K M2 Lesson 4: Classify shapes as rectangles or nonrectangles, with square rectangles as a special case.
terms such as above, below, beside, in front of, behind, and next to.	K M2 Lesson 5: Communicate the position of flat shapes by using position words.
	K M2 Lesson 14: Compose flat shapes.
K.G.A.2	K M2 Lesson 2: Classify shapes as triangles or nontriangles.
Correctly name shapes regardless of their orientation or overall size (e.g., circle, triangle, square, rectangle, rhombus, trapezoid, hexagon, cube, cone, cylinder, sphere).	K M2 Lesson 3: Classify shapes as circles, hexagons, or neither.
	K M2 Lesson 4: Classify shapes as rectangles or nonrectangles, with square rectangles as a special case.
	K M2 Lesson 7: Name solid shapes and discuss their attributes.
	K M2 Lesson 11: Construct and classify polygons.
	K M2 Lesson 14: Compose flat shapes.
K.G.A.3	K M2 Lesson 6: Distinguish between flat and solid shapes.
Identify shapes as two-dimensional (lying in a plane, flat) or	K M2 Lesson 9: Match solid shapes to their two-dimensional faces.
three-dimensional (solid).	

## Geometry

K.G.B Analyze, compare, create, and compose shapes.

### **Arizona Mathematics Standards**

# Aligned Components of *Eureka Math*<sup>2</sup>

K.G.B.4  Analyze and compare two-dimensional and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/corners), and other attributes (e.g., having sides of equal length).	K M2 Lesson 1: Find and describe attributes of flat shapes.  K M2 Lesson 2: Classify shapes as triangles or nontriangles.  K M2 Lesson 3: Classify shapes as circles, hexagons, or neither.  K M2 Lesson 4: Classify shapes as rectangles or nonrectangles, with square rectangles as a special case.  K M2 Lesson 8: Classify solid shapes based on the ways they can be moved.  K M2 Lesson 9: Match solid shapes to their two-dimensional faces.  K M2 Lesson 10: Construct a circle.  K M2 Lesson 12: Construct solid shapes by using a square base.  K M2 Lesson 13: Draw flat shapes.
K.G.B.5  Model shapes in the world by building shapes from components (e.g., use sticks and clay balls) and drawing shapes.  K.G.B.6	K M2 Lesson 15: Compose solid shapes to create a structure that can fit a toy inside.  K M2 Lesson 10: Construct a circle.  K M2 Lesson 11: Construct and classify polygons.  K M2 Lesson 12: Construct solid shapes by using a square base.  K M2 Lesson 13: Draw flat shapes.  K M4 Lesson 1: Compose flat shapes and count the parts.
Use simple shapes to form composite shapes.	K M4 Lesson 2: Decompose flat shapes and count the parts. K M4 Lesson 9: Compose shapes in more than one way. K M5 Lesson 25: Extend growing patterns.