EUREKA MATH².

Grade K | Maine Mathematics Standards Correlation to Eureka Math^{2®}

When the original *Eureka Math*[®] curriculum was released, it quickly became the most widely used K-5 mathematics curriculum in the country. Now, the Great Minds[®] teacher-writers have created *Eureka Math*^{2®}, a groundbreaking new curriculum that helps teachers deliver exponentially better math instruction while still providing students with the same deep understanding of and fluency in math. *Eureka Math*² carefully sequences mathematical content to maximize vertical alignment-a principle tested and proven to be essential in students' mastery of math-from kindergarten through high school.

While this innovative new curriculum includes all the trademark *Eureka Math* and moments that have been delighting students and teachers for years, it also boasts these exciting new features:

Teachability

*Eureka Math*² employs streamlined materials that allow teachers to plan more efficiently and focus their energy on delivering highquality 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 Math*² 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 Math*² teacher-writers have created one of the most readable mathematics curricula on the market. The curriculum's readability and accessibility help all students see themselves as mathematical thinkers and doers who are fully capable of owning their mathematics learning.

Digital Engagement

The digital elements of *Eureka Math*² add to students' engagement with the math. The curriculum provides teachers with digital slides for each lesson. In addition, each grade level includes wordless videos that spark students' interest and curiosity. Students at all levels work through mathematical explorations that help lead to their own mathematical discoveries. Digital lessons and videos provide opportunities for students to wonder, explore, and make sense of mathematics, which contributes to the development of a strong, positive mathematical identity.

Standards for Mathematical Practice	Aligned Components of Eureka Math ²
1.	Lessons in every module engage students in mathematical practices.
Make sense of problems and persevere in solving them.	These are indicated in margin notes included with every lesson.
2.	Lessons in every module engage students in mathematical practices.
Reason abstractly and quantitatively.	These are indicated in margin notes included with every lesson.
3.	Lessons in every module engage students in mathematical practices.
Construct viable arguments and critique the reasoning of others.	These are indicated in margin notes included with every lesson.
4.	Lessons in every module engage students in mathematical practices.
Model with mathematics.	These are indicated in margin notes included with every lesson.
5.	Lessons in every module engage students in mathematical practices.
Use appropriate tools strategically.	These are indicated in margin notes included with every lesson.
6.	Lessons in every module engage students in mathematical practices.
Attend to precision.	These are indicated in margin notes included with every lesson.
7.	Lessons in every module engage students in mathematical practices.
Look for and make use of structure.	These are indicated in margin notes included with every lesson.
8.	Lessons in every module engage students in mathematical practices.
Look for and express regularity in repeated reasoning.	These are indicated in margin notes included with every lesson.

Quantitative Reasoning–Counting and Cardinality

QR.C.1 Know the number names and the count sequence.

Maine Mathematics Standards	Aligned Components of Eureka Math ²
QR.C.1.K.CC.A.1	K M1 Lesson 4: Classify objects into three categories and count.
Count to 100 by ones and by tens.	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.

Maine Mathematics Standards	Aligned Components of Eureka Math ²
QR.C.1.K.CC.A.2	K M5 Lesson 18: Count starting from a number other than 1 to find the total.
Count forward beginning from a given	K M5 Lesson 22: Identify and extend linear patterns.
number within the known sequence (instead of having to begin at 1).	K M5 Lesson 23: Use a pattern to make a prediction.
(instead of having to begin at 1).	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.
QR.C.1.K.CC.A.3	K M1 Lesson 5: Classify objects into three categories, count, and match to a numeral.
Write numbers from 0 to 20 . Represent	K M1 Lesson 7: Practice counting accurately.
a number of objects with a written numeral 0-20 (with 0 representing a	K M1 Lesson 11: Write numerals 1-3 to answer <i>how many</i> questions.
count of no objects).	K M1 Lesson 12: Write numerals 4 and 5 to answer <i>how many</i> 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.

Quantitative Reasoning–Counting and Cardinality

QR.C.2 Count to tell the number of objects.

Maine Mathematics Standards	Aligned Components of <i>Eureka Math</i> ²
QR.C.2.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.
QR.C.2.K.CC.B.4a	K M1 Lesson 6: Organize, count, and represent a collection of objects.
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.	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.
QR.C.2.K.CC.B.4b	K M1 Lesson 6: Organize, count, and represent a collection of objects.
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.	 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.

Maine Mathematics Standards	Aligned Components of <i>Eureka Math</i> ²
QR.C.2.K.CC.B.4c	K M1 Lesson 29: Model the pattern of 1 more in the forward count sequence.
Understand that each successive number	K M1 Lesson 30: Build number stairs to show the pattern of 1 more in the forward count sequence.
name refers to a quantity that is one larger. Recognize the one more pattern	K M1 Lesson 31: Model the pattern of 1 less in the backward count sequence.
of counting using objects.	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.
QR.C.2.K.CC.B.5	K M1 Lesson 3: Classify objects into two categories and count.
Count to answer "how many?" questions	K M1 Lesson 6: Organize, count, and represent a collection of objects.
about as many as 20 things arranged in a line, a rectangular array, or a circle,	K M1 Lesson 7: Practice counting accurately.
or as many as 10 things in a scattered	K M1 Lesson 8: Count sets in linear, array, and scattered configurations.
configuration; given a number from $1-20$,	K M1 Lesson 10: Count out a group of objects to match a numeral.
count out that many objects.	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.

Quantitative Reasoning–Counting and Cardinality

QR.C.3 Compare numbers.

Maine Mathematics Standards	Aligned Components of <i>Eureka Math</i> ²
QR.C.3.K.CC.C.6	K M3 Lesson 12: Relate <i>more</i> and <i>fewer</i> to length.
ldentify whether the number of objects	K M3 Lesson 13: Compare sets by using more than, fewer than, and the same number as.
in one group is greater than, less than,	K M3 Lesson 14: Use number to compare sets with like units.
or equal to the number of objects in another group, e.g., by using matching	K M3 Lesson 16: Count and compare sets with unlike units.
and counting strategies. Include groups	K M3 Lesson 17: Count and compare sets in pictures.
with up to ten objects.	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.
QR.C.3.K.CC.C.7	K M3 Lesson 18: Compare the capacity of containers by using numerals.
Compare two numbers between $1 ext{ and } 10$	K M3 Lesson 19: Compare numbers by using greater than, less than, and equal to.
presented as written numerals.	K M3 Lesson 20: Compare two numbers in story situations.

Quantitative Reasoning–Numbers and Operations in Base Ten

QR.C.5 Understand place value.

Maine Mathematics Standards	Aligned Components of Eureka Math ²
QR.C.5.K.NBT.A.1	K M6 Lesson 1: Describe teen numbers as 10 ones and ones.
Compose and decompose numbers from 11 to 19 into ten ones and some	K M6 Lesson 2: Find 10 ones in a teen number.
further ones, e.g., by using objects or	K M6 Lesson 3: Write numerals 11–20.
drawings, and record each composition	K M6 Lesson 4: Order numerals 0–20.
or decomposition by a drawing or equation (e.g., $18 = 10 + 8$ and $10 + 8 = 18$);	K M6 Lesson 6: Count out a group of objects to match a numeral.
understand that these numbers are	K M6 Lesson 7: Decompose numbers 10-20 with 10 as a part.
composed of ten ones and one, two, three, four, five, six, seven, eight, or	K M6 Lesson 8: Represent teen number compositions and decompositions as addition sentences. K M6 Lesson 9: Represent teen number decompositions as subtraction sentences.
nine ones.	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.

Algebraic Reasoning–Operations and Algebraic Thinking

AR.C.1 Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.

Maine Mathematics Standards	Aligned Components of <i>Eureka Math</i> ²
AR.C.1.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 with	K M4 Lesson 6: Decompose a number in more than one way and record.
objects, fingers, mental images, drawings	K M4 Lesson 7: Find partners to 5.
sounds (e.g., claps), acting out situations, verbal explanations, expressions,	K M4 Lesson 10: Sort and record the decomposition with a number bond.
or equations.	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

Maine Mathematics Standards	Aligned Components of <i>Eureka Math</i> ²
AR.C.1.K.OA.A.1 continued	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.
AR.C.1.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.
(e.g., by using objects or drawings to represent the problem).	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.

Maine Mathematics Standards	Aligned Components of <i>Eureka Math</i> ²
AR.C.1.K.OA.A.3	K M4 Lesson 6: Decompose a number in more than one way and record.
Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., $5 = 2 + 3$ and $5 = 4 + 1$).	K M4 Lesson 7: Find partners to 5. K M4 Lesson 8: Find partners to 10. 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.
AR.C.1.K.OA.A.4 For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.	K M5 Lesson 20: Find the number that makes 10 and record with a number sentence. K M5 Lesson 26: Reason about numbers to add and subtract.
AR.C.1.K.OA.A.5 Fluently add and subtract within 5 including zero.	K M5 Lesson 7: Find the total in an addition sentence. K M5 Lesson 14: Find the difference in a subtraction sentence.

Geometric Reasoning–Geometry

GR.C.1 Identify, describe, analyze, compare, create, and compose shapes based on their attributes.

Maine Mathematics Standards	Aligned Components of Eureka Math ²
GR.C.1.K.G.A.1	K M2 Lesson 2: Classify shapes as triangles or nontriangles.
Describe objects in the environment using names of shapes and describe the relative positions of these objects using terms such as <i>above</i> , <i>below</i> , <i>beside</i> , <i>in front of</i> , <i>behind</i> , and <i>next to</i> .	 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 5: Communicate the position of flat shapes by using position words. K M2 Lesson 14: Compose flat shapes.

Maine Mathematics Standards	Aligned Components of Eureka Math ²
GR.C.1.K.G.A.2	K M2 Lesson 2: Classify shapes as triangles or nontriangles.
Correctly name shapes regardless of their orientations or overall size.	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.
GR.C.1.K.G.A.3	K M2 Lesson 6: Distinguish between flat and solid shapes.
ldentify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid").	K M2 Lesson 9: Match solid shapes to their two-dimensional faces.
GR.C.1.K.G.B.4	K M2 Lesson 1: Find and describe attributes of flat shapes.
Analyze and compare two- and	K M2 Lesson 2: Classify shapes as triangles or nontriangles.
three-dimensional shapes, in different	K M2 Lesson 3: Classify shapes as circles, hexagons, or neither.
sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides	K M2 Lesson 4: Classify shapes as rectangles or nonrectangles, with square rectangles as a special case.
and vertices/"corners") and other	K M2 Lesson 8: Classify solid shapes based on the ways they can be moved.
attributes (e.g., having sides of equal length).	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 M2 Lesson 15: Compose solid shapes to create a structure that can fit a toy inside.

Maine Mathematics Standards	Aligned Components of <i>Eureka Math</i> ²
GR.C.1.K.G.B.5	K M2 Lesson 10: Construct a circle.
Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.	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.
GR.C.1.K.G.B.6	K M4 Lesson 1: Compose flat shapes and count the parts.
Compose simple shapes to form larger 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.

Statistical Reasoning-Measurement & Data

SR.C.1 Describe and compare measurable attributes.

Maine Mathematics Standards	Aligned Components of <i>Eureka Math</i> ²
SR.C.1.K.MD.A.1 Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.	K M3 Lesson 2: Compare lengths of simple straight objects by using longer than, shorter than, and
	about the same length as.
	K M3 Lesson 7: Compare weights by using heavier than, lighter than, and about the same weight as.
	K M3 Lesson 12: Relate <i>more</i> and <i>fewer</i> to length.
	K M3 Lesson 21: Describe and compare several measurable attributes of objects and sets.
SR.C.1.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"/"less of" the attribute and describe the difference.	K M3 Topic B: Compare Weights
	K M3 Lesson 21: Describe and compare several measurable attributes of objects and sets.

Maine Mathematics Standards	Aligned Components of <i>Eureka Math</i> ²
SR.C.1.K.MD.B.3	K M1 Topic A: Classify to Make Categories and Count
Classify objects into given categories; count the numbers of objects 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.