EUREKA MATH².

Prekindergarten | Alaska Early Learning Guidelines 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 prekindergarten 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 select lessons. 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. 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
MP.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.
MP.2	Lessons in every module engage students in mathematical practices.
Reason abstractly and quantitatively.	These are indicated in margin notes included with every lesson.
MP.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.
MP.4	Lessons in every module engage students in mathematical practices.
Model with mathematics.	These are indicated in margin notes included with every lesson.
MP.5	Lessons in every module engage students in mathematical practices.
Use appropriate tools strategically.	These are indicated in margin notes included with every lesson.
MP.6	Lessons in every module engage students in mathematical practices.
Attend to precision.	These are indicated in margin notes included with every lesson.
MP.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.
MP.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.

34 Children demonstrate knowledge of numbers and counting.

Alaska Early Learning Guidelines	Aligned Components of <i>Eureka Math</i> ²
34.1	PK M1 Lesson 7: Animal Count
Quickly count objects up to four.	PK M1 Lesson 11: Match Game
	PK M1 Lesson 29: Match Game
	PK M3 Lesson 3: Decompose 3
	PK M3 Lesson 4: Decompose 4
34.2	PK M5 Lesson 2: 1 Less
Use toys and other objects as tools	PK M5 Lesson 3: 1 More, 1 Less
to solve simple addition and subtraction problems when the total is smaller	PK M5 Lesson 4: 1 More, 1 Less the Math Way
than five.	PK M5 Lesson 5: Market Math
	PK M5 Topic B: Represent Addition Stories
	PK M5 Topic D: Represent Subtraction Stories
	PK M6 Topic C: Project: Care for Our Space
34.3	PK M1 Lesson 3: Crayon Group
Verbally count to 20 (or in some way	PK M1 Lesson 5: Sorting Bags
indicate knowledge of the words for the numbers from 1 to 20 in sequence) with	PK M1 Lesson 6: Matching Markers
occasional errors.	PK M1 Lesson 8: Let's Count!
	PK M1 Lesson 10: Written Numbers
	PK M1 Lesson 15: Let's Count!
	PK M1 Lesson 25: More Written Numbers
	PK M1 Lesson 26: Count on the Rekenrek
	PK M1 Lesson 27: 5-Groups
	PK M1 Lesson 30: Let's Count and Record!

Alaska Early Learning Guidelines	Aligned Components of <i>Eureka Math</i> ²
34.3 continued	PK M2 Lesson 17: Let's Count and Record!
	PK M3 Topic C: Analyze the Count Sequence
	PK M4 Lesson 17: Let's Count and Compare!
	PK M5 Lesson 1: Bears on Stairs
	PK M5 Lesson 2: 1 Less
	PK M5 Lesson 3: 1 More, 1 Less
	PK M5 Lesson 24: Let's Count and Record!
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic C: Project: Care for Our Space
34.4	This standard is fully addressed by Fluency Anytime activities suggested for each module.
Count to 10 from memory.	
34.5	PK M1 Lesson 8: Let's Count!
Understand that the last number counted	PK M1 Lesson 14: Rice Scoops
represents the number of objects in a set.	PK M1 Lesson 15: Let's Count!
	PK M1 Lesson 30: Let's Count and Record!
	PK M2 Lesson 17: Let's Count and Record!
	PK M3 Lesson 17: Let's Count and Record!
	PK M4 Lesson 17: Let's Count and Compare!
	PK M5 Lesson 24: Let's Count and Record!
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic C: Project: Care for Our Space

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34.6	PK M1 Lesson 10: Written Numbers
Recognize and write some numerals up to 10.	PK M1 Lesson 11: Match Game
	PK M1 Lesson 12: Count the Math Way
	PK M1 Lesson 13: Rosetta Stone
	PK M1 Lesson 14: Rice Scoops
	PK M1 Lesson 16: Number Recipe
	PK M1 Lesson 17: Bean Bag Toss
	PK M1 Lesson 21: How Many Ways?
	PK M1 Lesson 22: Animal Sort
	PK M1 Lesson 25: More Written Numbers
	PK M1 Lesson 29: Match Game
	PK M1 Lesson 31: Match or No Match?
	PK M1 Lesson 32: Make It Match
	PK M1 Lesson 34: Culminating Activity
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic B: Project: Plan a Celebration
34.7	PK M5 Lesson 5: Market Math
Solve simple word problems with totals	PK M5 Topic B: Represent Addition Stories
of five or fewer items (know they will have	PK M5 Topic D: Represent Subtraction Stories
a total of four pencils if they already have three and are given one more).	PK M6 Topic C: Project: Care for Our Space

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34.8	PK M1 Lesson 3: Crayon Group
Continue to count when another item	PK M1 Lesson 5: Sorting Bags
is added to a set. Quickly name the	PK M1 Topic B: Answer <i>How Many</i> Questions
number in a group of objects, up to 10.	PK M1 Lesson 10: Written Numbers
	PK M1 Lesson 15: Let's Count!
	PK M1 Topic D: Count Out a Set of Up to 5 Objects
	PK M1 Lesson 24: Mystery Eggs
	PK M1 Topic F: Match Written Numbers with Sets of Up to 10 Objects
	PK M1 Topic G: Count Out a Set of Up to 10 Objects
	PK M2 Lesson 17: Let's Count and Record!
	PK M3 Topic B: Use Structure to Explore Numbers 6-10
	PK M3 Topic C: Analyze the Count Sequence
	PK M5 Lesson 3: 1 More, 1 Less
	PK M5 Lesson 4: 1 More, 1 Less the Math Way
	PK M5 Lesson 16: Show and Hide Fingers
	PK M5 Lesson 24: Let's Count and Record!
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic B: Project: Plan a Celebration
	PK M6 Topic C: Project: Care for Our Space

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Aligned Components of *Eureka Math*²

34.9	PK M4 Topic D: Compare Sets
Use counting to compare two sets of objects and to determine which set has more, less, or the same as the other.	PK M4 Lesson 18: How Many Crayons?
	PK M4 Lesson 19: Compare Groups
	PK M4 Lesson 20: Explore Area
	PK M4 Lesson 21: How Many Scoops?
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic B: Project: Plan a Celebration
	PK M6 Topic C: Project: Care for Our Space
34.10	PK M3 Lesson 12: 1 More
Understand that adding one or taking	PK M3 Lesson 13: Number Stairs
away one changes the number in a group of objects by exactly one.	PK M5 Topic A: Use the Count Sequence to Add and Subtract 1
of objects by exactly one.	PK M5 Lesson 6: Dinosaur Splash
	PK M5 Lesson 9: Mental Movies: Addition
	PK M5 Lesson 15: Under the Sea
	PK M5 Lesson 16: Show and Hide Fingers
	PK M5 Lesson 19: Mental Movies: Subtraction
34.11	PK M5 Lesson 2: 1 Less
Use toys and other objects as tools	PK M5 Lesson 3: 1 More, 1 Less
to solve simple addition and subtraction problems with totals smaller than 10.	PK M5 Lesson 4: 1 More, 1 Less the Math Way
problems with totals smaller than 10.	PK M5 Lesson 5: Market Math
	PK M5 Topic B: Represent Addition Stories
	PK M5 Topic D: Represent Subtraction Stories
	PK M6 Topic C: Project: Care for Our Space

Alaska Early Learning Guidelines	Aligned Components of <i>Eureka Math</i> ²
34.12	Supplemental material is necessary to address this standard.
Verbally count beyond 20, demonstrating an understanding of the number pattern.	
34.13	PK M1 Lesson 8: Let's Count!
Use strategies to count large sets	PK M1 Lesson 15: Let's Count!
of objects (more than 10).	PK M1 Lesson 30: Let's Count and Record!
	PK M2 Lesson 17: Let's Count and Record!
	PK M3 Lesson 17: Let's Count and Record!
	PK M4 Lesson 17: Let's Count and Compare!
	PK M5 Lesson 24: Let's Count and Record!
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic C: Project: Care for Our Space
34.14	PK M1 Lesson 8: Let's Count!
Know the number that comes before	PK M1 Lesson 10: Written Numbers
or after a specified number (up to 20).	PK M1 Lesson 14: Rice Scoops
	PK M1 Lesson 15: Let's Count!
	PK M1 Lesson 25: More Written Numbers
	PK M1 Lesson 26: Count on the Rekenrek
	PK M1 Lesson 30: Let's Count and Record!
	PK M2 Lesson 17: Let's Count and Record!
	PK M3 Topic C: Analyze the Count Sequence
	PK M4 Lesson 17: Let's Count and Compare!
	PK M5 Lesson 1: Bears on Stairs
	PK M5 Lesson 2: 1 Less

Alaska Early Learning Guidelines	Aligned Components of <i>Eureka Math</i> ²
34.14 continued	PK M5 Lesson 3: 1 More, 1 Less
	PK M5 Lesson 24: Let's Count and Record!
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic C: Project: Care for Our Space
34.15	PK M1 Lesson 10: Written Numbers
Recognize and order each written	PK M1 Lesson 14: Rice Scoops
numeral up to 10.	PK M1 Lesson 25: More Written Numbers
	PK M3 Lesson 13: Number Stairs
	PK M3 Lesson 14: Number Detective
	PK M3 Lesson 16: Counting with Puppet
	PK M5 Lesson 1: Bears on Stairs
	PK M5 Lesson 2: 1 Less
	PK M5 Lesson 3: 1 More, 1 Less
34.16	PK M5 Lesson 5: Market Math
Solve simple word problems with totals	PK M5 Topic B: Represent Addition Stories
of 10 or fewer items (know they will have	PK M5 Topic D: Represent Subtraction Stories
nine grapes if they have seven and are given two more).	PK M6 Topic C: Project: Care for Our Space

35 Children demonstrate knowledge of measurement: size, volume, height, weight, and length.

Alaska Early Learning Guidelines	Aligned Components of <i>Eureka Math</i> ²
35.1 Compare two small sets of objects (five or fewer).	PK M4 Topic D: Compare Sets
35.2 Make small series of objects (putting three or four objects in order by length).	PK M4 Lesson 8: Compare by Using Numbers PK M4 Lesson 9: Straw Line Up PK M4 Lesson 15: Trains
35.3 Recognize differences in measuring (when trying to pour the same amount of juice into three cups, look to see if one cup has more than the others).	PK M4 Lesson 3: Explore Capacity PK M4 Topic B: Compare Heights and Lengths PK M4 Topic C: Compare Weights
35.4 Use multiple copies of the same unit to measure (seeing how many pillows make up pillow fort wall).	PK M6 Topic C: Project: Care for Our Space Supplemental material is necessary to address this standard.
35.5 Use comparative language ("shortest," "heavier," "biggest").	PK M4 Lesson 3: Explore Capacity PK M4 Lesson 4: How Much Juice? PK M4 Topic B: Compare Heights and Lengths PK M4 Topic C: Compare Weights PK M4 Lesson 21: How Many Scoops? PK M4 Lesson 22: Compare Attributes PK M6 Topic C: Project: Care for Our Space

Alaska Early Learning Guidelines	Aligned Components of Eureka Math ²
35.6	Supplemental material is necessary to address this standard.
Build block buildings and include such structural features as arches and ramps.	
35.7	PK M4 Lesson 8: Compare by Using Numbers
Order four or more items by decreasing	PK M4 Lesson 9: Straw Line Up
or increasing (arranging a rock collection from the largest to the smallest).	PK M4 Lesson 15: Trains
nom angest to the smallesty.	Supplemental material is necessary to address this standard.
35.8	PK M4 Lesson 12: Balance Scale
Use correct tools to measure different	PK M4 Lesson 21: How Many Scoops?
items (choosing a scale for weight and a cup for volume).	PK M4 Lesson 22: Compare Attributes
· ,	Supplemental material is necessary to address this standard.
35.9	PK M4 Lesson 3: Explore Capacity
Use measurement language.	PK M4 Lesson 4: How Much Juice?
("This is three blocks long.")	PK M4 Topic B: Compare Heights and Lengths
	PK M4 Topic C: Compare Weights
	PK M4 Lesson 21: How Many Scoops?
	PK M4 Lesson 22: Compare Attributes
	PK M6 Topic C: Project: Care for Our Space
35.10	Supplemental material is necessary to address this standard.
Correctly add an object to an existing series (put longest block at end of row of increasing lengths).	

36 Children sort, classify, and organize objects.

Alaska Early Learning Guidelines	Aligned Components of <i>Eureka Math</i> ²
36.1	PK M1 Lesson 3: Crayon Group
Sort objects and then count and compare them.	PK M1 Lesson 4: Crayon and Marker Sort
	PK M1 Lesson 5: Sorting Bags
	PK M1 Topic E: Sort to Decompose
	PK M1 Lesson 34: Culminating Activity
	PK M4 Lesson 14: More or Fewer
	PK M4 Lesson 15: Trains
	PK M4 Lesson 18: How Many Crayons?
	PK M4 Lesson 19: Compare Groups
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic B: Project: Plan a Celebration
	PK M6 Topic C: Project: Care for Our Space
36.2	PK M1 Lesson 3: Crayon Group
Sort objects by one attribute into two	PK M1 Lesson 4: Crayon and Marker Sort
or more groups (big, medium, and small).	PK M1 Lesson 5: Sorting Bags
	PK M1 Topic E: Sort to Decompose
	PK M1 Lesson 34: Culminating Activity
	PK M4 Lesson 19: Compare Groups
	PK M6 Topic A: Project: Create a Business

Alaska Early Learning Guidelines	Aligned Components of <i>Eureka Math</i> ²
36.3	Supplemental material is necessary to address this standard.
Classify everyday objects that go together (mittens, hats, coats).	
36.4	PK M3 Topic D: Use Structure to Analyze Patterns
Copy, complete, and extend	PK M5 Lesson 21: Create Patterns
repeating patterns.	PK M5 Lesson 22: Music and Movement
	PK M5 Lesson 23: Patterns Everywhere
	PK M6 Topic B: Project: Plan a Celebration
36.5	Supplemental material is necessary to address this standard.
Build block buildings and include such structural features as arches and ramps.	
36.6	PK M1 Lesson 3: Crayon Group
Count only those objects in a group that	PK M1 Lesson 4: Crayon and Marker Sort
have a specific attribute (all of the red cars in a picture).	PK M1 Lesson 5: Sorting Bags
	PK M1 Topic E: Sort to Decompose
	PK M1 Lesson 34: Culminating Activity
	PK M4 Lesson 14: More or Fewer
	PK M4 Lesson 15: Trains
	PK M4 Lesson 18: How Many Crayons?
	PK M4 Lesson 19: Compare Groups
	PK M6 Topic A: Project: Create a Business

Alaska Early Learning Guidelines	Aligned Components of <i>Eureka Math</i> ²
36.7	PK M4 Lesson 8: Compare by Using Numbers
Place four or more objects or groups in order (number, length, etc.).	PK M4 Lesson 9: Straw Line Up
	PK M4 Lesson 15: Trains
	Supplemental material is necessary to address this standard.
36.8	PK M1 Topic E: Sort to Decompose
Sort sets of objects by one characteristic, then sort by a different characteristic and explain the sorting rules. ("These are all	PK M1 Lesson 34: Culminating Activity
	PK M6 Topic A: Project: Create a Business
of the red ones, but these are all of the	
big ones.")	
36.9 Replicate and extend simple patterns (adds yellow to patterns of different colored blocks).	PK M3 Topic D: Use Structure to Analyze Patterns
	PK M5 Lesson 21: Create Patterns
	PK M5 Lesson 22: Music and Movement
	PK M5 Lesson 23: Patterns Everywhere
	PK M6 Topic B: Project: Plan a Celebration
36.10	PK M2 Lesson 9: Shape Pictures
Combine shapes into patterns that make new shapes or complete puzzles (rearranging a collection of circles and variously sized rectangles to make the image of a person).	PK M2 Lesson 10: Shape Puzzles
	PK M2 Lesson 13: Shape Towers
	PK M2 Lesson 14: Puppet's Picture
	PK M2 Lesson 16: Pyramids!
	PK M3 Lesson 1: How Many Parts?
	PK M3 Lesson 2: Bunny Puzzles
	PK M6 Topic B: Project: Plan a Celebration

Alaska Early Learning Guidelines Aligned Components of Eureka Math² Supplemental material is necessary to address this standard. 36.11 Build complex block buildings, intentionally maintain such features as symmetry. PK M3 Lesson 21: A Story in Strings 36.12 Help child create his or her own patterns. PK M5 Lesson 21: Create Patterns ("What would it look like if we sorted PK M5 Lesson 22: Music and Movement blocks by color?") PK M5 Lesson 23: Patterns Everywhere PK M6 Topic B: Project: Plan a Celebration 36.13 PK M1 Topic A: Use Attributes to Match and Sort Suggest different rules for sorting (put PK M1 Topic E: Sort to Decompose a different color spoon with each plate). PK M1 Lesson 34: Culminating Activity PK M6 Topic A: Project: Create a Business 36.14 PK M2 Lesson 9: Shape Pictures Offer art projects that use shapes. PK M6 Topic B: Project: Plan a Celebration ("You can draw a house by putting This standard is addressed by Math Anytime activities suggested for module 2. a triangle on top of a square"; "You can draw a rectangle for the door.")

41 Children demonstrate awareness of location and spatial relationships.

Alaska Early Learning Guidelines	Aligned Components of <i>Eureka Math</i> ²
41.1	PK M2 Topic C: Build and Compose Two-Dimensional Shapes
Make shapes from parts (using a set of circle, rectangle, and line shapes to create an image of a snowman).	PK M2 Lesson 13: Shape Towers
	PK M2 Lesson 14: Puppet's Picture
	PK M2 Lesson 16: Pyramids!
	PK M3 Lesson 1: How Many Parts?
	PK M3 Lesson 2: Bunny Puzzles
	PK M6 Topic B: Project: Plan a Celebration
41.2	PK M2 Lesson 9: Shape Pictures
Combine and separate shapes to make designs or pictures (complete shape puzzles).	PK M2 Lesson 10: Shape Puzzles
	PK M2 Lesson 13: Shape Towers
	PK M2 Lesson 14: Puppet's Picture
	PK M2 Lesson 16: Pyramids!
	PK M3 Lesson 1: How Many Parts?
	PK M3 Lesson 2: Bunny Puzzles
	PK M6 Topic B: Project: Plan a Celebration
41.3	PK M2 Lesson 13: Shape Towers
Build simple examples of buildings, structures, or areas with three-dimensional shapes, such as building blocks.	PK M2 Lesson 16: Pyramids!
	Supplemental material is necessary to address this standard.

Alaska Early Learning Guidelines Aligned Components of Eureka Math² PK M2 Topic B: Analyze and Name Two-Dimensional Shapes 41.4 Name shapes (circle, triangle, square, PK M2 Lesson 14: Puppet's Picture rectangle), regardless of their size or orientation. PK M2 Topic A: Spatial Relations 41.5 Use basic language to describe location. PK M2 Lesson 8: Shape Games ("I am under the bed.") 41.6 PK M2 Topic A: Spatial Relations Correctly follow directions involving their own positions in space. ("Move forward," "sit behind," etc.) PK M2 Lesson 4: Shapes in Art 41.7 Link or sort familiar shapes (circle, square, PK M2 Lesson 5: Circles triangle) that have different sizes and PK M2 Lesson 6: Sort the Shapes orientation. PK M2 Lesson 7: Triangles, Rectangles, and Square Rectangles PK M2 Lesson 13: Shape Towers PK M2 Lesson 15: Roll, Slide, or Stack