Prekindergarten | Colorado Academic Standards—Mathematics
Correlation to *Eureka Math²®*

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 Math²®*, 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 Math²* 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* aha moments that have been delighting students and teachers for years, it also boasts these exciting new features:

Teachability

Eureka Math² 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 Math²* 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 Math²*
MP.1 Make sense of problems and persevere in solving them.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.2 Reason abstractly and quantitatively.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.3 Construct viable arguments and critique the reasoning of others.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.4 Model with mathematics.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.5 Use appropriate tools strategically.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.6 Attend to precision.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.7 Look for and make use of structure.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.8 Look for and express regularity in repeated reasoning.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.

Number and Quantity

P.CC.A Counting & Cardinality: Know number names and the count sequence.

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.CC.A.1 Count verbally or sign to at least 20 by ones.	PK M1 Lesson 3: Crayon Group PK M1 Lesson 5: Sorting Bags PK M1 Lesson 6: Matching Markers 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! PK M2 Lesson 17: Let's Count and Record! PK M3 Topic C: Analyze the Count Sequence 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

Number and Quantity

P.CC.B Counting & Cardinality: Recognize the number of objects in a small set.

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.CC.B.2 Instantly recognize, without counting, small quantities of up to five objects and say or sign the number.	PK M1 Lesson 7: Animal Count PK M1 Lesson 11: Match Game PK M1 Lesson 29: Match Game PK M3 Lesson 7: Do You See 5?

Number and Quantity

P.CC.C Counting & Cardinality: Understand the relationship between numbers and quantities.

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.CC.C.3 Say or sign the number names in order when counting, pairing one number word that corresponds with one object, up to at least 10.	PK M1 Lesson 7: Animal Count PK M1 Lesson 8: Let's Count! PK M1 Lesson 15: Let's Count! PK M1 Lesson 18: Forest Path Game 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 B: Project: Plan a Celebration PK M6 Topic C: Project: Care for Our Space

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.CC.C.4 Use the number name of the last object counted to answer "How many?" questions for up to approximately 10 objects.	PK M1 Lesson 8: Let's Count! PK M1 Lesson 14: Rice Scoops 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
P.CC.C.5 Accurately count as many as five objects in a scattered configuration or out of a collection of more than five objects.	PK M1 Lesson 7: Animal Count PK M1 Lesson 8: Let's Count! PK M1 Lesson 9: How Many? 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 Lesson 28: Counting with Puppet PK M1 Lesson 29: Match Game PK M1 Lesson 30: Let's Count and Record! 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 Lesson 13: Number Stairs

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.CC.C.5 ***continued***	PK M3 Lesson 17: Let's Count and Record! PK M5 Lesson 4: 1 More, 1 Less the Math Way PK M5 Lesson 16: Show and Hide Fingers PK M6 Topic A: Project: Create a Business PK M6 Topic B: Project: Plan a Celebration
P.CC.C.6 Understand that each successive number name refers to a quantity that is one larger.	PK M1 Lesson 3: Crayon Group PK M1 Lesson 5: Sorting Bags PK M1 Lesson 6: Matching Markers 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! PK M2 Lesson 17: Let's Count and Record! PK M3 Topic C: Analyze the Count Sequence 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

Number and Quantity

P.CC.D Counting & Cardinality: Compare numbers.

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.CC.D.7 Identify whether the number of objects in one group is more than, less than or the same as objects in another group for up to at least five objects.	PK M4 Topic D: Compare Sets 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
P.CC.D.8 Identify and use numbers related to order or position from first to fifth.	PK M5 Lesson 21: Create Patterns PK M6 Topic B: Project: Plan a Celebration *Supplemental material is necessary to address this standard.*

Number and Quantity

P.CC.E Counting & Cardinality: Associate a quantity with written numerals up to 5 and begin to write numbers.

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.CC.E.9 Associate a number of objects with a written numeral 0–5.	PK M1 Lesson 10: Written Numbers 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

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.CC.E.9 ***continued***	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
P.CC.E.10 Recognize and, with support, write some numerals up to 10.	PK M1 Lesson 10: Written Numbers 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?

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.CC.E.10 ***continued***	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

Geometry

P.G.A Geometry: Identify, describe, compare, and compose shapes.

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.G.A.1 Name and describe shapes in terms of length of sides, number of sides, and number of angles/corners.	PK M2 Lesson 5: Circles PK M2 Lesson 7: Triangles, Rectangles, and Square Rectangles PK M2 Lesson 8: Shape Games PK M2 Lesson 14: Puppet's Picture
P.G.A.2 Correctly name basic shapes (circle, square, rectangle, triangle) regardless of size and orientation.	PK M2 Lesson 5: Circles PK M2 Lesson 7: Triangles, Rectangles, and Square Rectangles PK M2 Lesson 8: Shape Games PK M2 Lesson 14: Puppet's Picture
P.G.A.3 Analyze, compare, and sort two- and three-dimensional shapes and objects in different sizes. Describe their similarities, differences, and other attributes, such as size and shape.	PK M2 Lesson 4: Shapes in Art PK M2 Lesson 5: Circles PK M2 Lesson 6: Sort the Shapes PK M2 Lesson 7: Triangles, Rectangles, and Square Rectangles PK M2 Lesson 13: Shape Towers PK M2 Lesson 15: Roll, Slide, or Stack

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.G.A.4 Compose simple shapes to form larger shapes.	PK M2 Lesson 9: Shape Pictures 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

Geometry

P.G.B Geometry: Explore the positions of objects in space.

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.G.B.5 Understand and use language related to directionality, order, and the position of objects, including *up/down* and *in front/behind*.	PK M2 Topic A: Spatial Relations PK M2 Lesson 8: Shape Games
P.G.B.6 Correctly follow directions involving their own position in space, such as "Stand up" and "Move forward."	PK M2 Lesson 2: Use the Clues *Supplemental material is necessary to address this standard.*

Data, Statistics, and Probability

P.MD.A Measurement & Data: Measure objects by their various attributes using standard and nonstandard measurement and use differences in attributes to make comparisons.

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.MD.A.1 Use comparative language, such as *shortest*, *heavier*, *biggest*, or *later*.	PK M4 Topic A: Describe Size 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
P.MD.A.2 Compare or order up to five objects based on their measurable attributes, such as height or weight.	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 15: Trains PK M4 Lesson 21: How Many Scoops? PK M4 Lesson 22: Compare Attributes PK M6 Topic C: Project: Care for Our Space
P.MD.A.3 Measure using the same unit, such as putting together snap cubes to see how tall a book is.	PK M6 Topic C: Project: Care for Our Space *Supplemental material is necessary to address this standard.*

Algebra and Functions

P.OA.A Operations & Algebraic Thinking: Understand addition as adding to and understand subtraction as taking away from.

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.OA.A.1 Represent addition and subtraction in different ways, such as with fingers, objects, and drawings.	PK M5 Lesson 3: 1 More, 1 Less PK M5 Lesson 4: 1 More, 1 Less the Math Way 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
P.OA.A.2 Solve addition and subtraction problems set in simple contexts. Add and subtract up to at least five to or from a given number to find a sum or difference up to 10.	PK M5 Topic B: Represent Addition Stories PK M5 Lesson 15: Under the Sea PK M5 Lesson 17: Draw Math Stories: Subtraction PK M5 Lesson 18: Represent Puffins at the Sea PK M5 Lesson 19: Mental Movies: Subtraction PK M5 Lesson 20: Train Stories: Subtraction PK M6 Topic C: Project: Care for Our Space
P.OA.A.3 With adult assistance, begin to use counting on (adding 1 or 2, for example) from the larger number for addition.	*Supplemental material is necessary to address this standard.*

Algebra and Functions

P.OA.B Operations & Algebraic Thinking: Understand simple patterns.

Colorado Academic Standards—Mathematics	Aligned Components of *Eureka Math²*
P.OA.B.4 Fill in missing elements of simple patterns.	PK M3 Lesson 18: Pattern Units PK M3 Lesson 20: Find the Missing Piece PK M5 Lesson 21: Create Patterns PK M5 Lesson 22: Music and Movement PK M5 Lesson 23: Patterns Everywhere
P.OA.B.5 Duplicate simple patterns in a different location than demonstrated, such as making the same alternating color pattern with blocks at a table that was demonstrated on the rug. Extend patterns, such as making an eight-block tower of the same pattern that was demonstrated with four blocks.	PK M3 Lesson 21: A Story in Strings PK M3 Lesson 22: Red Light, Green Light! 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
P.OA.B.6 Identify the core unit of sequentially repeating patterns, such as color in a sequence of alternating red and blue 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