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## Prekindergarten | North Carolina Standard Course of Study—Mathematics Correlation to *Eureka Math*<sup>2</sup>®

When the original *Eureka Math*<sup>®</sup> curriculum was released, it quickly became the most widely used K–5 mathematics curriculum in the country. Now, the Great Minds<sup>®</sup> 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 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 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 Math*<sup>2</sup> 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*<sup>2</sup> 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 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 <i>Eureka Math</i> <sup>2</sup>
<p><b>MP.1</b> Make sense of problems and persevere in solving them.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.2</b> Reason abstractly and quantitatively.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.3</b> Construct viable arguments and critique the reasoning of others.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.4</b> Model with mathematics.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.5</b> Use appropriate tools strategically.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.6</b> Attend to precision.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.7</b> Look for and make use of structure.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.8</b> Look for and express regularity in repeated reasoning.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>

## Mathematical Thinking and Expression

**CD-10 Children show understanding of numbers and quantities during play and other activities.**

North Carolina Standard Course of Study–Mathematics	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>CD-10n</b> Rote count in order to 20 with increasing accuracy.</p>	<p>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</p>

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<p><b>CD-10o</b></p> <p>Without counting, state the number of objects in a small collection (1–3) (when a friend holds up two fingers, look at her hand and say, “Two fingers” without counting).</p>	<p>PK M1 Lesson 7: Animal Count</p> <p>PK M1 Lesson 11: Match Game</p> <p>PK M1 Lesson 29: Match Game</p> <p>PK M3 Lesson 3: Decompose 3</p> <p>PK M3 Lesson 7: Do You See 5?</p>
<p><b>CD-10p</b></p> <p>Count up to 10 objects arranged in a line using one-to-one correspondence with increasing accuracy, and answer the question “How many?”</p>	<p>PK M1 Lesson 7: Animal Count</p> <p>PK M1 Lesson 8: Let’s Count!</p> <p>PK M1 Lesson 9: How Many?</p> <p>PK M1 Lesson 15: Let’s Count!</p> <p>PK M1 Lesson 18: Forest Path Game</p> <p>PK M1 Lesson 24: Mystery Eggs</p> <p>PK M1 Lesson 28: Counting with Puppet</p> <p>PK M1 Lesson 29: Match Game</p> <p>PK M1 Lesson 30: Let’s Count and Record!</p> <p>PK M1 Lesson 34: Culminating Activity</p> <p>PK M2 Lesson 17: Let’s Count and Record!</p> <p>PK M3 Lesson 4: Decompose 4</p> <p>PK M3 Lesson 5: Decompose 5</p> <p>PK M3 Lesson 6: 5-Piece Puzzles</p> <p>PK M3 Lesson 7: Do You See 5?</p> <p>PK M3 Lesson 9: Decompose 6 and 7</p> <p>PK M3 Lesson 10: Decompose 8 and 9</p> <p>PK M3 Lesson 11: Decompose 10</p>

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<p><b>CD-10p</b> <i>continued</i></p>	<p>PK M3 Lesson 17: 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</p>
<p><b>CD-10q</b>                      Given a number 0–5, count out that many objects.</p>	<p>PK M1 Topic D: Count Out a Set of Up to 5 Objects                      PK M1 Lesson 31: Match or No Match?                      PK M1 Lesson 32: Make It Match                      PK M1 Lesson 33: Dinosaur World                      PK M3 Lesson 8: Make Your Own Rekenrek!                      PK M3 Lesson 9: Decompose 6 and 7                      PK M3 Lesson 10: Decompose 8 and 9                      PK M3 Lesson 11: Decompose 10                      PK M3 Lesson 13: Number Stairs                      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>

**North Carolina Standard Course of Study–Mathematics**

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<p><b>CD-10r</b></p> <p>Compare the amount of items in small sets of objects (up to 5 objects) by matching or counting and use language such as “more than” and “less than” to describe the sets of objects.</p>	<p>PK M4 Topic D: Compare Sets</p> <p>PK M4 Lesson 18: How Many Crayons?</p> <p>PK M4 Lesson 19: Compare Groups</p> <p>PK M4 Lesson 20: Explore Area</p> <p>PK M4 Lesson 21: How Many Scoops?</p> <p>PK M6 Topic A: Project: Create a Business</p> <p>PK M6 Topic B: Project: Plan a Celebration</p> <p>PK M6 Topic C: Project: Care for Our Space</p>
<p><b>CD-10s</b></p> <p>Show they understand that putting two groups of objects together will make a bigger group and that a group of objects can be taken apart into smaller groups.</p>	<p>PK M5 Lesson 3: 1 More, 1 Less</p> <p>PK M5 Lesson 4: 1 More, 1 Less the Math Way</p> <p>PK M5 Lesson 5: Market Math</p> <p>PK M5 Topic B: Represent Addition Stories</p> <p>PK M5 Topic C: Compose and Decompose Numbers in More than One Way</p> <p>PK M5 Topic D: Represent Subtraction Stories</p> <p>PK M6 Topic C: Project: Care for Our Space</p>
<p><b>CD-10t</b></p> <p>Write numerals or number-like forms during play and daily activities.</p>	<p>PK M1 Lesson 10: Written Numbers</p> <p>PK M1 Lesson 11: Match Game</p> <p>PK M1 Lesson 12: Count the Math Way</p> <p>PK M1 Lesson 13: Rosetta Stone</p> <p>PK M1 Lesson 14: Rice Scoops</p> <p>PK M1 Lesson 16: Number Recipe</p> <p>PK M1 Lesson 17: Bean Bag Toss</p> <p>PK M1 Lesson 21: How Many Ways?</p>

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<p><b>CD-10t <i>continued</i></b></p>	<p>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>
<p><b>CD-10u</b>                  Match numerals 1–5 to sets of objects, with guidance and support.</p>	<p>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?                  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>

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<p><b>CD-10v</b></p> <p>Recognize some numerals and attempt to write them during play and daily activities.</p>	<p>PK M1 Lesson 10: Written Numbers</p> <p>PK M1 Lesson 11: Match Game</p> <p>PK M1 Lesson 12: Count the Math Way</p> <p>PK M1 Lesson 13: Rosetta Stone</p> <p>PK M1 Lesson 14: Rice Scoops</p> <p>PK M1 Lesson 16: Number Recipe</p> <p>PK M1 Lesson 17: Bean Bag Toss</p> <p>PK M1 Lesson 21: How Many Ways?</p> <p>PK M1 Lesson 22: Animal Sort</p> <p>PK M1 Lesson 25: More Written Numbers</p> <p>PK M1 Lesson 29: Match Game</p> <p>PK M1 Lesson 31: Match or No Match?</p> <p>PK M1 Lesson 32: Make It Match</p> <p>PK M1 Lesson 34: Culminating Activity</p> <p>PK M6 Topic A: Project: Create a Business</p> <p>PK M6 Topic B: Project: Plan a Celebration</p>
<p><b>CD-10w</b></p> <p>Show understanding of first, next, and last during play and daily activities (answer questions about who is first and last to slide down the slide; say, “The engine is first, and the caboose is last” when making a train).</p>	<p>PK M5 Lesson 21: Create Patterns</p> <p>PK M6 Topic B: Project: Plan a Celebration</p>



## Mathematical Thinking and Expression

**CD-11 Children compare, sort, group, organize, and measure objects and create patterns in their everyday environment.**

North Carolina Standard Course of Study–Mathematics	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>CD-11i</b></p> <p>Use descriptive language for size, length, or weight (short, tall, long, heavy, big).</p>	<p>PK M4 Topic A: Describe Size</p> <p>PK M4 Topic B: Compare Heights and Lengths</p> <p>PK M4 Topic C: Compare Weights</p> <p>PK M4 Lesson 21: How Many Scoops?</p> <p>PK M4 Lesson 22: Compare Attributes</p> <p>PK M6 Topic C: Project: Care for Our Space</p>
<p><b>CD-11m</b></p> <p>Use simple measurement tools with guidance and support to measure objects (a ruler, measuring cup, scale).</p>	<p>PK M4 Lesson 3: Explore Capacity</p> <p>PK M4 Lesson 12: Balance Scale</p> <p>PK M4 Lesson 13: Collect Data and Compare</p> <p><i>Supplemental material is necessary to address this standard.</i></p>
<p><b>CD-11n</b></p> <p>Directly compare more than two objects by size, length, or weight (“That rock is heavier than these others; I can’t lift it.” Look at three strings that are different lengths and select the longest string).</p>	<p>PK M4 Lesson 3: Explore Capacity</p> <p>PK M4 Lesson 4: How Much Juice?</p> <p>PK M4 Topic B: Compare Heights and Lengths</p> <p>PK M4 Topic C: Compare Weights</p> <p>PK M4 Lesson 21: How Many Scoops?</p> <p>PK M4 Lesson 22: Compare Attributes</p> <p>PK M6 Topic C: Project: Care for Our Space</p>

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<p><b>CD-11o</b> Put a few objects in order by length (arrange a group of 3 blocks in order from the shortest to the longest).</p>	<p>PK M4 Lesson 9: Straw Line Up PK M4 Lesson 15: Trains</p>
<p><b>CD-11p</b> Sort a group of objects (0–10) using one attribute (color, size, shape, quantity) with increasing accuracy (sort blocks by shape and place like-shaped blocks on the shelf; sort beads by color).</p>	<p>PK M1 Topic A: Use Attributes to Match and Sort PK M1 Topic E: Sort to Decompose PK M1 Lesson 34: Culminating Activity PK M6 Topic A: Project: Create a Business</p>
<p><b>CD-11q</b> Duplicate and extend simple patterns using concrete objects (look at a pattern of beads and tell what bead comes next in the pattern).</p>	<p>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</p>

**Mathematical Thinking and Expression**

**CD-12 Children identify and use common shapes and concepts about position during play and other activities.**

<p><b>North Carolina Standard Course of Study–Mathematics</b></p>	<p><b>Aligned Components of <i>Eureka Math</i><sup>2</sup></b></p>
<p><b>CD-12k</b> Consistently use a variety of words for positions in space, and follow directions using these words.</p>	<p>PK M2 Topic A: Spatial Relations PK M2 Lesson 8: Shape Games</p>

North Carolina Standard Course of Study–Mathematics	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>CD-12I</b></p> <p>Use 2- and 3-dimensional shapes to represent real-world objects. (Say, “We are building a castle and we need a round block for the tunnel.” “I glued a circle and a square on my picture to make a house.”)</p>	<p>PK M2 Topic C: Build and Compose Two-Dimensional Shapes</p> <p>PK M2 Lesson 13: Shape Towers</p> <p>PK M2 Lesson 14: Puppet’s Picture</p> <p>PK M2 Lesson 16: Pyramids!</p> <p>PK M3 Lesson 1: How Many Parts?</p> <p>PK M3 Lesson 2: Bunny Puzzles</p> <p>PK M6 Topic B: Project: Plan a Celebration</p>
<p><b>CD-12m</b></p> <p>Name basic shapes and describe their characteristics using descriptive and geometric attributes. (“That’s a triangle; it’s pointy.” “It’s a circle because it’s round.”)</p>	<p>PK M2 Topic B: Analyze and Name Two-Dimensional Shapes</p> <p>PK M2 Lesson 13: Shape Towers</p> <p>PK M2 Lesson 14: Puppet’s Picture</p> <p>PK M2 Lesson 15: Roll, Slide, or Stack</p> <p>PK M2 Lesson 16: Pyramids!</p>

**Mathematical Thinking and Expression**

**CD-13 Children use mathematical thinking to solve problems in their everyday environment.**

North Carolina Standard Course of Study–Mathematics	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>CD-13e</b></p> <p>Seek answers to questions during play and daily activities using an increasing variety of mathematical strategies.</p>	<p>PK M6 Topic A: Project: Create a Business</p> <p>PK M6 Topic B: Project: Plan a Celebration</p> <p>PK M6 Topic C: Project: Care for Our Space</p>

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<p><b>CD-13f</b></p> <p>Use observation and counting with increasing accuracy to answer questions such as “How many do we need?” and “How many more do we need?” during play and other daily activities (count new children to see how many more plates are needed for snack; return extra drinks to cooler at picnic to arrive at the correct number).</p>	<p>PK M4 Topic D: Compare Sets</p> <p>PK M6 Topic A: Project: Create a Business</p> <p>PK M6 Topic B: Project: Plan a Celebration</p> <p>PK M6 Topic C: Project: Care for Our Space</p>
<p><b>CD-13g</b></p> <p>Use drawing and concrete materials to represent an increasing variety of mathematical ideas (draw shapes to represent pattern; stack different-colored blocks to represent classmates’ answers to a survey question).</p>	<p>PK M1 Lesson 30: Let’s Count and Record!</p> <p>PK M2 Lesson 17: Let’s Count and Record!</p> <p>PK M3 Lesson 17: Let’s Count and Record!</p> <p>PK M3 Lesson 22: Red Light, Green Light!</p> <p>PK M4 Lesson 17: Let’s Count and Record!</p> <p>PK M5 Topic B: Represent Addition Stories</p> <p>PK M5 Topic D: Represent Subtraction Stories</p> <p>PK M5 Topic E: Extend and Create Patterns</p> <p>PK M6 Topic C: Project: Care for Our Space</p>
<p><b>CD-13h</b></p> <p>Begin to explain how a mathematical problem was solved. (“I saw that there was always a blue flower after a red flower so I knew to put a blue one next.” “I counted four friends who didn’t have cookies so I got four more.”)</p>	<p><i>This standard is fully addressed throughout the course, as lessons in every module encourage students to explain their thinking.</i></p>