
Prekindergarten | Mathematics Standards of Learning for Virginia Public Schools (2021) Correlation to *Eureka Math*²[®] (2027)

*Eureka Math*² is a research-proven math curriculum that empowers teachers to center instructional techniques on student success. Teachers can foster more “aha!” learning moments by providing the support needed for all learners to build a more confident math mindset.

This *Eureka Math*² edition builds on a strong foundation of effective instruction. It provides teachers with guidance on delivering rigorous instruction that honors student choice and encourages confident problem-solving.

*Eureka Math*² carefully sequences mathematical content to maximize vertical alignment from kindergarten through high school. This kind of sequencing has proven to be essential in students’ mastery of math.

Teachability

*Eureka Math*² 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 into the teacher materials.

Accessibility

*Eureka Math*² incorporates Universal Design for Learning (UDL) principles so all learners can access the mathematics and take on challenging math concepts. UDL, Differentiation, and Multilingual Learner supports are built into the instructional design and are clearly identified in the *Teach* book.

The curriculum also carries a focus on readability. By eliminating unnecessary words and using 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.

Math Confidence

*Eureka Math*² fosters a classroom culture of learning by encouraging student-led discourse and cognitive engagement that results in confident learners. By leveraging consistent models, routines, and progressions, teachers can remove barriers and allow all students an avenue to success. Within the digital platform, each grade includes wordless videos and digital interactives that spark students’ curiosity and help them make conceptual connections. Using the *Learn* books, students wonder, explore, and make sense of mathematics, which helps them develop a strong, positive mathematical identity.

Mathematics

CD3.1 Comparing numbers, counting, and recognizing quantities

Virginia's Early Learning & Development Standards	Aligned Components of <i>Eureka Math</i> ²
<p>CD3.1q Counts forward to 20 by memory</p>	<p><i>This standard is fully addressed by Fluency Anytime activities suggested for each module.</i></p>
<p>CD3.1r Counts backwards from 5</p>	<p>PK M5 Lesson 1: Bears on Stairs PK M5 Lesson 2: 1 Less</p> <p><i>This standard is fully addressed by Fluency Anytime activities suggested for module 5.</i></p>
<p>CD3.1s Shows accuracy in demonstrating one-to-one correspondence for up to 10 objects</p>	<p>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 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>

Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.1t Counts up to 10 objects in a line</p>	<p>PK M1 Lesson 7: Animal Count PK M1 Lesson 8: Let’s Count! PK M1 Lesson 15: Let’s Count! PK M1 Lesson 16: Number Recipe PK M1 Lesson 18: Forest Path Game PK M3 Lesson 7: Do You See 5? 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 M3 Lesson 17: Let’s Count and Record!</p>
<p>CD3.1u Answers the question “How many?” for up to 10 objects</p>	<p>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 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 Lesson 34: Culminating Activity PK M2 Lesson 17: Let’s Count and Record! PK M3 Lesson 7: Do You See 5? PK M3 Lesson 9: Decompose 6 and 7</p>

Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.1u <i>continued</i></p>	<p>PK M3 Lesson 10: Decompose 8 and 9 PK M3 Lesson 11: Decompose 10 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</p>
<p>CD3.1v Counts out 10–20 objects in a line from a larger group</p>	<p>PK M3 Lesson 17: Let’s Count and Record!</p>
<p>CD3.1w Instantly recognizes a collection of up to 10 objects (i.e., subitizes)</p>	<p>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?</p>
<p>CD3.1x Uses words that mean zero such as “nothing” or “none”</p>	<p>PK M1 Lesson 11: Match Game PK M1 Lesson 16: Number Recipe PK M1 Lesson 17: Bean Bag Toss PK M5 Lesson 1: Bears on Stairs PK M5 Lesson 2: 1 Less PK M5 Lesson 4: 1 More, 1 Less the Math Way</p>

Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.1y</p> <p>Shows a quantity to match a numeral by making marks, drawing items, or placing actual objects</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>
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Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.1z</p> <p>Compares sets of objects that range in size from 1–10, as having “more”, “fewer” or “same”</p>	<p>PK M4 Lesson 14: More or Fewer</p> <p>PK M4 Lesson 15: Trains</p> <p>PK M4 Lesson 16: Are There Enough?</p> <p>PK M4 Lesson 17: Let’s Count and Compare!</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>CD3.1aa</p> <p>Arranges images with 3 or more different quantities of objects in correct order</p>	<p>PK M4 Lesson 14: More or Fewer</p> <p>PK M4 Lesson 15: Trains</p> <p>PK M4 Lesson 16: Are There Enough?</p> <p>PK M4 Lesson 17: Let’s Count and Compare!</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>

Mathematics

CD3.2 Understanding number relationships and solving problems using operations

Virginia's Early Learning & Development Standards	Aligned Components of <i>Eureka Math</i> ²
<p>CD3.2c</p> <p>Solves addition (joining) problems using manipulatives (e.g., fingers, objects, tally marks)</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 Lesson 6: Dinosaur Splash</p> <p>PK M5 Lesson 7: Draw Math Stories: Addition</p> <p>PK M5 Lesson 9: Mental Movies: Addition</p> <p>PK M5 Lesson 10: Train Stories: Addition</p> <p>PK M6 Topic C: Project: Care for Our Space</p>
<p>CD3.2d</p> <p>Solves subtraction (separating) problems using manipulatives (e.g., fingers, objects, tally marks)</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 Lesson 15: Under the Sea</p> <p>PK M5 Lesson 16: Show and Hide Fingers</p> <p>PK M5 Lesson 17: Draw Math Stories: Subtraction</p> <p>PK M5 Lesson 19: Mental Movies: Subtraction</p> <p>PK M5 Lesson 20: Train Stories: Subtraction</p> <p>PK M6 Topic C: Project: Care for Our Space</p>

Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.2e</p> <p>With adult help, uses “counting on” as a strategy to solve addition (joining) problems (e.g., “I have 3 and 2 more gives me 4, 5”)</p>	<p><i>Supplemental material is necessary to address this standard.</i></p>
<p>CD3.2f</p> <p>With adult help, uses “counting back from” as a strategy to solve subtraction (separating) problems (e.g., To take away 3 from 5, “5, 4, 3 ... leaves 2”)</p>	<p><i>Supplemental material is necessary to address this standard.</i></p>

Mathematics

CD3.3 Geometric thinking and spatial reasoning

Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.3s</p> <p>Uses smaller shapes to compose larger and different shapes (e.g., two triangles make one square)</p>	<p>PK M2 Lesson 9: Shape Pictures</p> <p>PK M2 Lesson 10: Shape Puzzles</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>
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Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.3t</p> <p>Correctly names squares, rectangles and triangles regardless of size or orientation</p>	<p>PK M2 Lesson 5: Circles</p> <p>PK M2 Lesson 7: Triangles, Rectangles, and Square Rectangles</p> <p>PK M2 Lesson 8: Shape Games</p> <p>PK M2 Lesson 14: Puppet’s Picture</p>
<p>CD3.3u</p> <p>Describes attributes of two and three dimensional shapes (e.g., “A square has four corners/angles”, “a triangle has three straight sides”)</p>	<p>PK M2 Lesson 4: Shapes in Art</p> <p>PK M2 Lesson 5: Circles</p> <p>PK M2 Lesson 6: Sort the Shapes</p> <p>PK M2 Lesson 7: Triangles, Rectangles, and Square Rectangles</p> <p>PK M2 Lesson 13: Shape Towers</p> <p>PK M2 Lesson 15: Roll, Slide, or Stack</p>
<p>CD3.3v</p> <p>Draws and describes pictures that show relative locations and uses terms like “near to” or “closer to”</p>	<p>PK M2 Lesson 1: Where Is Rosie?</p> <p>PK M2 Lesson 2: Use the Clues</p> <p>PK M2 Lesson 3: Build a Map</p> <p>PK M2 Lesson 8: Shape Games</p> <p><i>Supplemental material is necessary to fully address this standard.</i></p>

Mathematics

CD3.4 Sorting, classifying, and patterning

Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

Virginia’s Early Learning & Development Standards	Aligned Components of <i>Eureka Math</i> ²
<p>CD3.4I</p> <p>Identifies, duplicates, extends, and creates simple repeating patterns</p>	<p>PK M3 Lesson 18: Pattern Units</p> <p>PK M3 Lesson 19: Number Cha-Cha</p> <p>PK M3 Lesson 20: Find the Missing Piece</p> <p>PK M3 Lesson 21: A Story in Strings</p> <p>PK M3 Lesson 22: Red Light, Green Light!</p> <p>PK M5 Lesson 21: Create Patterns</p> <p>PK M5 Lesson 22: Music and Movement</p> <p>PK M5 Lesson 23: Patterns Everywhere</p> <p>PK M6 Topic B: Project: Plan a Celebration</p>
<p>CD3.4m</p> <p>Fills in missing elements of simple, repeating patterns</p>	<p>PK M3 Lesson 18: Pattern Units</p> <p>PK M3 Lesson 20: Find the Missing Piece</p> <p>PK M5 Lesson 23: Patterns Everywhere</p> <p>PK M6 Topic B: Project: Plan a Celebration</p>

Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.4n</p> <p>Recognizes, names, and extends simple repeating patterns</p>	<p>PK M3 Lesson 18: Pattern Units</p> <p>PK M3 Lesson 19: Number Cha-Cha</p> <p>PK M3 Lesson 20: Find the Missing Piece</p> <p>PK M3 Lesson 21: A Story in Strings</p> <p>PK M3 Lesson 22: Red Light, Green Light!</p> <p>PK M5 Lesson 21: Create Patterns</p> <p>PK M5 Lesson 22: Music and Movement</p> <p>PK M5 Lesson 23: Patterns Everywhere</p> <p>PK M6 Topic B: Project: Plan a Celebration</p>
<p>CD3.4o</p> <p>Describes quantitative changes (e.g., “I am two years older than when I started school.”)</p>	<p><i>Supplemental material is necessary to address this standard.</i></p>

Mathematics

CD3.5 Describing, comparing, and measuring

Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.5g</p> <p>Directly compares the length or volume of two objects</p>	<p>PK M4 Lesson 3: Explore Capacity</p> <p>PK M4 Lesson 4: How Much Juice?</p> <p>PK M4 Lesson 5: Tall or Short</p> <p>PK M4 Lesson 6: Compare Heights</p> <p>PK M4 Lesson 7: Compare Lengths</p> <p>PK M4 Lesson 8: Compare by Using Numbers</p> <p>PK M4 Lesson 9: Straw Line Up</p> <p>PK M4 Lesson 10: Heavy or Light</p> <p>PK M4 Lesson 11: Compare Weights</p> <p>PK M4 Lesson 12: Balance Scale</p> <p>PK M4 Lesson 13: Collect Data and Compare</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>

Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.5h</p> <p>Uses comparative language to describe and compare objects using attributes (e.g., longer, shorter, lighter, heavier, etc.)</p>	<p>PK M4 Lesson 3: Explore Capacity</p> <p>PK M4 Lesson 4: How Much Juice?</p> <p>PK M4 Lesson 5: Tall or Short</p> <p>PK M4 Lesson 6: Compare Heights</p> <p>PK M4 Lesson 7: Compare Lengths</p> <p>PK M4 Lesson 8: Compare by Using Numbers</p> <p>PK M4 Lesson 9: Straw Line Up</p> <p>PK M4 Lesson 10: Heavy or Light</p> <p>PK M4 Lesson 11: Compare Weights</p> <p>PK M4 Lesson 12: Balance Scale</p> <p>PK M4 Lesson 13: Collect Data and Compare</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>CD3.5i</p> <p>With adult support, measures using the same non-standard unit, such as putting together snap cubes to see how tall a book is</p>	<p>PK M4 Lesson 21: How Many Scoops?</p> <p>PK M6 Topic C: Project: Care for Our Space</p> <p><i>Supplemental material is necessary to fully address this standard.</i></p>

Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.5j</p> <p>With adult support, compares or orders up to 5 objects based on their measurable attributes, such as height or weight</p>	<p>PK M4 Lesson 5: Tall or Short</p> <p>PK M4 Lesson 6: Compare Heights</p> <p>PK M4 Lesson 7: Compare Lengths</p> <p>PK M4 Lesson 8: Compare by Using Numbers</p> <p>PK M4 Lesson 9: Straw Line Up</p> <p>PK M4 Lesson 10: Heavy or Light</p> <p>PK M4 Lesson 11: Compare Weights</p> <p>PK M4 Lesson 12: Balance Scale</p> <p>PK M4 Lesson 13: Collect Data and Compare</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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Virginia’s Early Learning & Development Standards

Aligned Components of *Eureka Math*²

<p>CD3.5k</p> <p>With adult support, recognizes that different attributes such as weight, height, and volume require different tools to measure</p>	<p>PK M4 Lesson 2: Puppet’s Bed</p> <p>PK M4 Lesson 3: Explore Capacity</p> <p>PK M4 Lesson 5: Tall or Short</p> <p>PK M4 Lesson 6: Compare Heights</p> <p>PK M4 Lesson 7: Compare Lengths</p> <p>PK M4 Lesson 8: Compare by Using Numbers</p> <p>PK M4 Lesson 9: Straw Line Up</p> <p>PK M4 Lesson 10: Heavy or Light</p> <p>PK M4 Lesson 11: Compare Weights</p> <p>PK M4 Lesson 12: Balance Scale</p> <p>PK M4 Lesson 13: Collect Data and Compare</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>CD3.5I</p> <p>With adult support, demonstrates “size seriation” by comparing and ordering objects according to measured attribute/characteristic (e.g., places books on shelf according to measured size)</p>	<p>PK M4 Lesson 5: Tall or Short</p> <p>PK M4 Lesson 6: Compare Heights</p> <p>PK M4 Lesson 7: Compare Lengths</p> <p>PK M4 Lesson 8: Compare by Using Numbers</p> <p>PK M4 Lesson 9: Straw Line Up)</p> <p>PK M4 Lesson 10: Heavy or Light</p> <p>PK M4 Lesson 11: Compare Weights</p> <p>PK M4 Lesson 12: Balance Scale</p> <p>PK M4 Lesson 13: Collect Data and Compare</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>CD3.5m</p> <p>With adult support, explores tools of measurement such as rulers, scales, and measuring cup, using the appropriate tool for the attribute/characteristic being measured</p>	<p>PK M4 Lesson 12: Balance Scale</p> <p>PK M4 Lesson 21: How Many Scoops?</p> <p>PK M4 Lesson 22: Compare Attributes</p> <p><i>Supplemental material is necessary to fully address this standard.</i></p>
<p>CD3.5n</p> <p>With instruction, shows an awareness of time by talking about events with words such as before, after, and later</p>	<p><i>Supplemental material is necessary to address this standard.</i></p>