Prekindergarten | Pennsylvania Learning Standards for Early Childhood 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.

Numbers and Operations
2.1.A.1 Counting and Cardinality: Cardinality

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.1.PK.A.1 Know number names and the count sequence.	*This standard is addressed by the lessons aligned to its subsections.*
Name numerals up to 10.	*This standard is fully addressed by Fluency Anytime activities suggested for each module.*
Rote count up to 20.	*This standard is fully addressed by Fluency Anytime activities suggested for each module.*
Match a numeral to a set of 0–10 objects.	PK M1 Lesson 11: Match Game PK M1 Lesson 12: Count the Math Way PK M1 Lesson 17: Bean Bag Toss PK M1 Lesson 21: How Many Ways? PK M1 Lesson 22: Animal Sort PK M1 Lesson 29: Match Game PK M1 Lesson 31: Match or No Match? PK M1 Lesson 32: Make It Match
Represent a number of objects with a written numeral 0–10.	PK M1 Lesson 10: Written Numbers 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 21: How Many Ways? PK M1 Lesson 22: Animal Sort

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.1.PK.A.1 *continued* Represent a number of objects with a written numeral 0–10. *continued*	PK M1 Lesson 25: More Written Numbers PK M1 Lesson 27: 5-Groups 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
Differentiate numerals from letters.	*Supplemental material is necessary to address this standard.*
Count on when a specific number is provided.	PK M1 Lesson 10: Written Numbers PK M1 Lesson 14: Rice Scoops 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

Numbers and Operations
2.1.A.2 Counting and Cardinality: Counting

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.1.PK.A.2 Count to tell the number of objects.	*This standard is fully addressed by the lessons aligned to its subsections.*
Subitize (visually quantify) to determine how many: attach a numerical value to a set of objects without counting up to six.	PK M1 Lesson 7: Animal Count PK M1 Lesson 11: Match Game PK M1 Lesson 29: Match Game PK M3 Lesson 3: Decompose 3 PK M3 Lesson 4: Decompose 4 PK M3 Lesson 5: Decompose 5 PK M3 Lesson 6: 5-Piece Puzzles PK M3 Lesson 7: Do You See 5? PK M3 Lesson 9: Decompose 6 and 7
Use one-to-one correspondence when counting to 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 M6 Topic A: Project: Create a Business PK M6 Topic B: Project: Plan a Celebration PK M6 Topic C: Project: Care for Our Space

Pennsylvania Learning Standards for Early Childhood	**Aligned Components of *Eureka Math²***
2.1.PK.A.2 *continued* State the total number of objects counted, demonstrating understanding that the last number named tells the number of objects counted.	PK M1 Lesson 7: Animal Count PK M1 Lesson 8: Let's Count! PK M1 Lesson 9: How Many? PK M1 Lesson 14: Rice Scoops 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 PK M3 Lesson 10: Decompose 8 and 9 PK M3 Lesson 11: Decompose 10 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

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.1.PK.A.2 *continued* Use counting and numbers as part of play and as a means for determining quantity.	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 *This standard is fully addressed by Math Anytime activities suggested for each module.*

Numbers and Operations
2.1.A.3 Counting and Cardinality: Comparing

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.1.PK.A.3 Compare numbers.	*This standard is fully addressed by the lessons aligned to its subsections.*
Create sets of objects with same and different amounts.	PK M4 Topic D: Compare Sets
Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group up to 10.	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

Pennsylvania Learning Standards for Early Childhood	**Aligned Components of *Eureka Math²***
2.1.PK.A.3 *continued* Compare two numbers between 1 and 5 when presented as written numerals.	PK M4 Lesson 15: Trains PK M4 Lesson 19: Compare Groups PK M4 Lesson 20: Explore Area
Practice use of mathematical vocabulary to compare numbers of 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

Numbers and Operations
2.1.A.MP Mathematical Processes

Pennsylvania Learning Standards for Early Childhood	**Aligned Components of *Eureka Math²***
2.1.PK.MP Use mathematical processes when quantifying, comparing, representing, and modeling numbers.	*This standard is fully addressed by the content aligned to its subsections.*
Engage in numerical play.	*This standard is fully addressed as students engage in numerical play when they quantify, compare, represent, and model numbers throughout modules 1, 3, and 4.*

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.1.PK.MP *continued* Persist in numerical play.	*This standard is fully addressed as students persist in numerical play when they quantify, compare, represent, and model numbers throughout modules 1, 3, and 4.*
When prompted, communicate thinking while engaged in numerical play.	*This standard is fully addressed as students communicate thinking when they quantify, compare, represent, and model numbers throughout modules 1, 3, and 4.*
Talk and listen to peers during numerical play.	*This standard is fully addressed as students talk and listen to peers when they quantify, compare, represent, and model numbers throughout modules 1, 3, and 4.*
Use common forms of numerical representation (e.g., fingers, tally marks, dots).	*This standard is fully addressed as students use numerical representations when they quantify, compare, represent, and model numbers throughout modules 1, 3, and 4.*

Algebraic Concepts

2.2.A.1 Operations and Algebraic Thinking

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.2.PK.A.1 Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.	*This standard is fully addressed by the lessons aligned to its subsections.*

Pennsylvania Learning Standards for Early Childhood	**Aligned Components of *Eureka Math²***
2.2.PK.A.1 *continued* Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.	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 C: Compose and Decompose Numbers in More than One Way PK M5 Topic D: Represent Subtraction Stories PK M6 Topic C: Project: Care for Our Space
Explain adding and subtracting sets of objects up to and including six, using basic math vocabulary (e.g., putting together, adding to, taking away, taking apart, taking from).	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
Join sets of objects.	PK M3 Lesson 6: 5-Piece Puzzles PK M5 Lesson 6: Dinosaur Splash PK M5 Lesson 7: Draw Math Stories: Addition PK M5 Lesson 8: Math Tools PK M5 Lesson 12: Match Game: Make 4
Separate sets of objects.	PK M1 Lesson 19: Math Stories PK M1 Topic E: Sort to Decompose PK M3 Lesson 3: Decompose 3 PK M3 Lesson 4: Decompose 4 PK M3 Lesson 5: Decompose 5 PK M3 Lesson 6: 5-Piece Puzzles

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.2.PK.A.1 *continued* Separate sets of objects. *continued*	PK M3 Lesson 9: Decompose 6 and 7 PK M3 Lesson 10: Decompose 8 and 9 PK M3 Lesson 11: Decompose 10 PK M5 Lesson 11: Break Apart 5 PK M5 Lesson 13: Turtle Time PK M5 Lesson 14: Sorting Apples
Add objects to a set and tell a number story about it.	PK M1 Lesson 33: Dinosaur World PK M5 Lesson 5: Market Math PK M5 Topic B: Represent Addition Stories PK M5 Topic C: Care for Our Space

Algebraic Concepts
2.2.A.MP Mathematical Processes

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.2.PK.MP Use mathematical processes when representing relationships.	*This standard is fully addressed by the content aligned to its subsections.*
Engage in mathematical play.	*This standard is fully addressed as students engage in mathematical play when they represent relationships throughout modules 3 and 5.*
Persist in mathematical play.	*This standard is fully addressed as students persist in mathematical play when they represent relationships throughout modules 3 and 5.*

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.2.PK.MP *continued* Problem-solve during mathematical play.	*This standard is fully addressed as students problem-solve when they represent relationships throughout modules 3 and 5.*
When prompted, communicate thinking while engaged in mathematical play.	*This standard is fully addressed as students communicate thinking when they represent relationships throughout modules 3 and 5.*
Talk and listen to peers during mathematical play.	*This standard is fully addressed as students talk and listen to peers when they represent relationships throughout modules 3 and 5.*
Use common forms of numerical representation (e.g., fingers, tally marks, dots).	*This standard is fully addressed as students use numerical representations when they represent relationships throughout modules 3 and 5.*

Geometry

2.3.A.1 Geometry: Identification

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.3.PK.A.1 Identify and describe shapes.	*This standard is addressed by the lessons aligned to its subsections.*
Describe objects in the environment using names of shapes.	PK M2 Lesson 4: Shapes in Art PK M2 Lesson 9: Shape Pictures PK M2 Lesson 13: Shape Towers PK M2 Lesson 15: Roll, Slide, or Stack PK M2 Lesson 16: Pyramids!

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.3.PK.A.1 *continued* Recognize and describe the attributes of geometric figures.	PK M2 Topic B: Analyze and Name Two-Dimensional Shapes PK M2 Lesson 11: Build Shapes PK M2 Lesson 12: Build My Shape PK M2 Lesson 13: Shape Towers PK M2 Lesson 14: Puppet's Picture PK M2 Lesson 15: Roll, Slide, or Stack PK M2 Lesson 16: Pyramids!
Describe the relative positions of objects using terms such as *above, below, beside, in front of, behind,* and *next to.*	PK M2 Topic A: Spatial Relations PK M2 Lesson 8: Shape Games
Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional (solid).	*Supplemental material is necessary to address this standard.*

Geometry

2.3.A.2 Geometry: Application

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.3.PK.A.2 Analyze, compare, create, and compose shapes.	*This standard is addressed by the lessons aligned to its subsections.*

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.3.PK.A.2 *continued* Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts, and other attributes.	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 14: Puppet's Picture PK M2 Lesson 15: Roll, Slide, or Stack
Model shapes in the world by building shapes from components and drawing shapes.	PK M2 Lesson 11: Build Shapes PK M2 Lesson 12: Build My Shape
Use geoboards to create shapes with rubber bands.	*Supplemental material is necessary to address this standard.*
Use simple shapes to compose 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
2.3.A.MP Mathematical Processes

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.3.PK.MP Use mathematical processes when drawing, constructing, modeling, and representing shapes.	*This standard is fully addressed by the content aligned to its subsections.*
Engage in geometric play.	*This standard is fully addressed as students engage in geometric play when they draw, construct, and represent shapes throughout module 2.*
Persist in geometric play.	*This standard is fully addressed as students persist in geometric play when they draw, construct, and represent shapes throughout module 2.*
Problem-solve during geometric play.	*This standard is fully addressed as students problem-solve when they draw, construct, and represent shapes throughout module 2.*
When prompted, communicate thinking while engaged in geometric play.	*This standard is fully addressed as students communicate thinking when they draw, construct, and represent shapes throughout module 2.*
Talk and listen to peers during geometric play.	*This standard is fully addressed as students talk and listen to peers when they draw, construct, and represent shapes throughout module 2.*

Measurement, Data, and Probability
2.4.A.1 Measurement and Data: Measurement

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.4.PK.A.1 Describe and compare measurable attributes of length and weights of everyday objects.	*This standard is addressed by the lessons aligned to its subsections.*
Recognize attributes of objects that can be measured.	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
Measure objects using non-standard items (e.g., hands, shoes, yarn, blocks).	PK M4 Lesson 21: How Many Scoops? PK M6 Topic C: Project: Care for Our Space *Supplemental material is necessary to fully address this standard.*
Practice use of standard measurement tools.	PK M4 Lesson 12: Balance Scale *Supplemental material is necessary to fully address this standard.*

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.4.PK.A.1 *continued* Practice using measurement vocabulary.	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
Sort and order by one attribute.	PK M1 Topic A: Use Attributes to Match and Sort PK M1 Topic E: Sort to Decompose PK M1 Lesson 34: Culminating Activity PK M2 Lesson 6: Sort the Shapes PK M4 Lesson 8: Compare by Using Numbers PK M4 Lesson 9: Straw Line Up PK M4 Lesson 15: Trains PK M6 Topic A: Project: Create a Business
Use ordinal number words to describe the position of objects (first, second, last).	PK M5 Lesson 21: Create Patterns PK M6 Topic B: Project: Plan a Celebration
Compare two objects with a measurable attribute in common to see which object has "more of"/"less of" the attribute and describe the difference.	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

Measurement, Data, and Probability

2.4.A.4 Measurement and Data: Data

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.4.PK.A.2 Classify objects and count the number of objects in each category.	*This standard is fully addressed by the lessons aligned to its subsections.*
Classify up to 10 objects using one attribute into categories.	PK M1 Topic A: Use Attributes to Match and Sort PK M1 Topic E: Sort to Decompose PK M1 Lesson 34: Culminating Activity PK M4 Lesson 13: Collect Data and Compare 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
Display the number of objects in each category.	PK M1 Lesson 20: Character Sort PK M1 Lesson 21: How Many Ways? PK M1 Lesson 22: Animal Sort PK M1 Lesson 23: Story Cards PK M4 Lesson 13: Collect Data and Compare 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

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.4.PK.A.2 *continued* Count and compare the quantities of each category to describe which category has "more of"/"less of" the attribute.	PK M1 Lesson 20: Character Sort PK M1 Lesson 21: How Many Ways? PK M1 Lesson 22: Animal Sort PK M1 Lesson 23: Story Cards PK M4 Lesson 13: Collect Data and Compare 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

Measurement, Data, and Probability
2.4.A.MP Mathematical Processes

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.4.PK.MP Use mathematical processes when measuring; representing, organizing, and understanding data.	*This standard is fully addressed by the content aligned to its subsections.*
Engage in activities that include measuring, representing, organizing, and understanding data.	*This standard is fully addressed as students engage in activities that include measuring, representing, organizing, and understanding data in modules 1, 4, and 6.*

Pennsylvania Learning Standards for Early Childhood	Aligned Components of *Eureka Math²*
2.4.PK.MP *continued* Persist in activities that include measuring, representing, organizing, and understanding data.	*This standard is fully addressed as students persist in activities that include measuring, representing, organizing, and understanding data in modules 1, 4, and 6.*
Problem-solve in activities that include measuring, representing, organizing, and understanding data.	*This standard is fully addressed as students problem-solve in activities that include measuring, representing, organizing, and understanding data in modules 1, 4, and 6.*
When prompted, communicate thinking while engaged in activities that include measuring, representing, organizing, and understanding data.	*This standard is fully addressed as students communicate thinking while measuring, representing, organizing, and understanding data in modules 1, 4, and 6.*
Talk and listen to peers during activities that include measuring, representing, organizing, and understanding data.	*This standard is fully addressed as students talk and listen to peers during activities that include measuring, representing, organizing, and understanding data in modules 1, 4, and 6.*