Grade 6 | Pennsylvania Core 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 kindergarten 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 each lesson. 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. Digital lessons and 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
CC.2.1.6.D Ratios and Proportional Relationships

Pennsylvania Core Standards Mathematics	Aligned Components of *Eureka Math²*
CC.2.1.6.D.1 Understand ratio concepts and use ratio reasoning to solve problems.	6 M1 Topic A: Ratios 6 M1 Topic B: Collections of Equivalent Ratios 6 M1 Topic C: Comparing Ratio Relationships 6 M1 Topic D: Rates 6 M1 Topic E: Percents 6 M4 Lesson 22: Relationship Between Two Variables 6 M4 Lesson 23: Graphs of Ratio Relationships 6 M5 Lesson 8: Areas of Composite Figures in Real-World Situations 6 M5 Lesson 13: Surface Area in Real-World Situations

Numbers and Operations
CC.2.1.6.E The Number System

Pennsylvania Core Standards Mathematics	Aligned Components of *Eureka Math²*
CC.2.1.6.E.1 Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	6 M2 Topic B: Dividing Fractions 6 M2 Topic C: Dividing Fractions Fluently

Pennsylvania Core Standards Mathematics	Aligned Components of *Eureka Math²*
CC.2.1.6.E.2 Identify and choose appropriate processes to compute fluently with multi-digit numbers.	6 M2 Lesson 13: Decimal Addition and Subtraction 6 M2 Lesson 14: Patterns in Multiplying Decimals 6 M2 Lesson 15: Decimal Multiplication 6 M2 Lesson 17: Partial Quotients 6 M2 Lesson 18: The Standard Division Algorithm 6 M2 Lesson 19: Expressing Quotients as Decimals 6 M2 Topic F: Decimal Division
CC.2.1.6.E.3 Develop and/or apply number theory concepts to find common factors and multiples.	6 M2 Topic A: Factors, Multiples, and Divisibility 6 M4 Lesson 13: The Distributive Property 6 M4 Lesson 14: Using the Distributive Property to Factor Expressions
CC.2.1.6.E.4 Apply and extend previous understandings of numbers to the system of rational numbers.	6 M3 Topic A: Integers and Rational Numbers 6 M3 Topic B: Ordering and Magnitude 6 M3 Topic C: The Coordinate Plane 6 M3 Topic D: Solving Problems in the Coordinate Plane 6 M5 Lesson 5: Perimeter and Area in the Coordinate Plane

Algebraic Concepts
CC.2.2.6.B Expressions and Equations

Pennsylvania Core Standards Mathematics	Aligned Components of *Eureka Math²*
CC.2.2.6.B.1 Apply and extend previous understandings of arithmetic to algebraic expressions.	6 M4 Topic A: Numerical Expressions 6 M4 Lesson 7: Algebraic Expressions with Addition and Subtraction 6 M4 Lesson 8: Algebraic Expressions with Addition, Subtraction, Multiplication, and Division 6 M4 Lesson 9: Addition and Subtraction Expressions from Real-World Situations 6 M4 Lesson 11: Modeling Real-World Situations with Expressions 6 M4 Topic C: Equivalent Expressions Using the Properties of Operations 6 M4 Lesson 17: Equations and Solutions 6 M5 Lesson 1: The Area of a Parallelogram 6 M5 Lesson 3: The Area of a Triangle 6 M5 Lesson 4: Areas of Triangles in Real-World Situations 6 M5 Lesson 6: Problem Solving with Area in the Coordinate Plane 6 M5 Lesson 7: Area of Trapezoids and Other Polygons 6 M5 Lesson 12: From Nets to Surface Area 6 M5 Lesson 13: Surface Area in Real-World Situations 6 M5 Lesson 14: Designing a Box 6 M5 Lesson 16: Applying Volume Formulas 6 M5 Lesson 17: Problem Solving with Volume

Pennsylvania Core Standards Mathematics	Aligned Components of *Eureka Math²*
CC.2.2.6.B.2 Understand the process of solving a one-variable equation or inequality and apply it to real-world and mathematical problems.	6 M4 Lesson 9: Addition and Subtraction Expressions from Real-World Situations 6 M4 Lesson 10: Multiplication and Division Expressions from Real-World Situations 6 M4 Lesson 11: Modeling Real-World Situations with Expressions 6 M4 Lesson 16: Equivalent Algebraic Expressions 6 M4 Topic D: Equations and Inequalities 6 M5 Lesson 2: The Area of a Right Triangle
CC.2.2.6.B.3 Represent and analyze quantitative relationships between dependent and independent variables.	6 M4 Topic E: Relating Variables by Using Tables, Graphs, and Equations

Geometry
CC.2.3.6.A Geometry

Pennsylvania Core Standards Mathematics	Aligned Components of *Eureka Math²*
CC.2.3.6.A.1 Apply appropriate tools to solve real-world and mathematical problems involving area, surface area, and volume.	6 M5 Topic A: Areas of Polygons 6 M5 Topic B: Problem Solving with Area 6 M5 Topic C: Nets and Surface Area 6 M5 Topic D: Volumes of Right Rectangular Prisms

Measurement, Data, and Probability
CC.2.4.6.B Statistics and Probability

Pennsylvania Core Standards Mathematics	Aligned Components of *Eureka Math²*
CC.2.4.6.B.1 Demonstrate an understanding of statistical variability by displaying, analyzing, and summarizing distributions.	6 M6 Topic A: Understanding Distributions 6 M6 Topic B: Mean and Mean Absolute Deviation 6 M6 Topic C: Median, Interquartile Range, and Box Plots 6 M6 Topic D: Answering Statistical Questions by Analyzing Data