Grade 6 | Pennsylvania Core Standards Mathematics (2014) Correlation to *Eureka Math²® (2027)*

Eureka Math² 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 Math²* 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 Math² 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 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 into the teacher materials.

Accessibility

Eureka Math² 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 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.

Math Confidence

Eureka Math² 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.

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 Lesson 1: Jars of Jelly Beans 6 M1 Lesson 2: Introduction to Ratios 6 M1 Lesson 3: Ratios and Tape Diagrams 6 M1 Lesson 4: Exploring Ratios by Making Batches 6 M1 Lesson 5: Equivalent Ratios 6 M1 Lesson 6: Ratio Tables and Double Number Lines 6 M1 Lesson 7: Graphs of Ratio Relationships 6 M1 Lesson 8: Addition Patterns in Ratio Relationships 6 M1 Lesson 9: Multiplication Patterns in Ratio Relationships 6 M1 Lesson 10: Multiplicative Reasoning in Ratio Relationships 6 M1 Lesson 11: Applications of Ratio Reasoning 6 M1 Lesson 12: Multiple Ratio Relationships 6 M1 Lesson 13: Comparing Ratio Relationships, Part 1 6 M1 Lesson 14: Comparing Ratio Relationships, Part 2 6 M1 Lesson 15: The Value of the Ratio 6 M1 Lesson 16: Speed 6 M1 Lesson 17: Rates 6 M1 Lesson 18: Comparing Rates 6 M1 Lesson 19: Using Rates to Convert Units 6 M1 Lesson 20: Solving Rate Problems 6 M1 Lesson 21: Solving Multi-Step Rate Problems 6 M1 Lesson 22: Introduction to Percents

Pennsylvania Core Standards Mathematics	Aligned Components of *Eureka Math²*
CC.2.1.6.D.1 ***continued***	6 M1 Lesson 23: Finding the Percent 6 M1 Lesson 24: Finding a Part 6 M1 Lesson 25: Finding the Whole 6 M1 Lesson 26: Solving Percent Problems 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 Lesson 6: Dividing a Whole Number by a Fraction 6 M2 Lesson 7: Dividing a Fraction by a Whole Number 6 M2 Lesson 8: Dividing Fractions by Making Common Denominators 6 M2 Lesson 9: Dividing Fractions by Using Tape Diagrams 6 M2 Lesson 10: Dividing Fractions by Using the Invert and Multiply Strategy 6 M2 Lesson 11: Applications of Fraction Division 6 M2 Lesson 12: Fraction Operations in a Real-World Situation

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 Lesson 21: Dividing a Decimal by a Whole Number 6 M2 Lesson 22: Dividing a Decimal by a Decimal Greater Than 1 6 M2 Lesson 23: Dividing a Decimal by a Decimal Less Than 1 6 M2 Lesson 24: Living on Mars
CC.2.1.6.E.3 Develop and/or apply number theory concepts to find common factors and multiples.	5 M1 Lesson 21: Express a composite number to 50 as a product of its prime factors. 6 M2 Lesson 1: Factors and Multiples 6 M2 Lesson 2: Divisibility 6 M2 Lesson 3: The Greatest Common Factor 6 M2 Lesson 4: The Least Common Multiple 6 M2 Lesson 5: The Euclidean Algorithm 6 M4 Lesson 13: The Distributive Property 6 M4 Lesson 14: Using the Distributive Property to Factor Expressions

Pennsylvania Core Standards Mathematics	Aligned Components of *Eureka Math²*
CC.2.1.6.E.4 Apply and extend previous understandings of numbers to the system of rational numbers.	6 M3 Lesson 1: Positive and Negative Numbers 6 M3 Lesson 2: Integers 6 M3 Lesson 3: Rational Numbers 6 M3 Lesson 4: Rational Numbers in Real-World Situations 6 M3 Lesson 5: Comparing Rational Numbers 6 M3 Lesson 6: Ordering Rational Numbers 6 M3 Lesson 7: Absolute Value 6 M3 Lesson 8: Absolute Value and Order 6 M3 Lesson 9: Interpreting Order and Distance in Real-World Situations 6 M3 Lesson 10: The Four Quadrants of the Coordinate Plane 6 M3 Lesson 11: Plotting Points in the Coordinate Plane 6 M3 Lesson 12: Reflections in the Coordinate Plane 6 M3 Lesson 13: Constructing the Coordinate Plane 6 M3 Lesson 14: Modeling with the Coordinate Plane 6 M3 Lesson 15: Distance in the Coordinate Plane 6 M3 Lesson 16: Figures in the Coordinate Plane 6 M3 Lesson 17: Problem Solving with 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 Lesson 1: Expressions with Addition and Subtraction 6 M4 Lesson 2: Expressions with Multiplication and Division 6 M4 Lesson 3: Exploring Exponents 6 M4 Lesson 4: Evaluating Expressions with Exponents 6 M4 Lesson 5: Exploring Order of Operations 6 M4 Lesson 6: Order of Operations 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 Lesson 12: Applying Properties to Multiplication and Division Expressions 6 M4 Lesson 13: The Distributive Property 6 M4 Lesson 14: Using the Distributive Property to Factor Expressions 6 M4 Lesson 15: Combining Like Terms by Using the Distributive Property 6 M4 Lesson 16: Equivalent Algebraic Expressions 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

Pennsylvania Core Standards Mathematics	Aligned Components of *Eureka Math²*
CC.2.2.6.B.1 ***continued***	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
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 Lesson 17: Equations and Solutions 6 M4 Lesson 18: Inequalities and Solutions 6 M4 Lesson 19: Solving Equations with Addition and Subtraction 6 M4 Lesson 20: Solving Equations with Multiplication and Division 6 M4 Lesson 21: Solving Problems with Equations 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 Lesson 22: Relationship Between Two Variables 6 M4 Lesson 23: Graphs of Ratio Relationships 6 M4 Lesson 24: Graphs of Non-Ratio Relationships 6 M4 Lesson 25: The Statue of Liberty

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 Lesson 1: The Area of a Parallelogram 6 M5 Lesson 2: The Area of a Right Triangle 6 M5 Lesson 3: The Area of a Triangle 6 M5 Lesson 4: Areas of Triangles in Real-World Situations 6 M5 Lesson 5: Perimeter and Area in the Coordinate Plane 6 M5 Lesson 6: Problem Solving with Area in the Coordinate Plane 6 M5 Lesson 7: Areas of Trapezoids and Other Polygons 6 M5 Lesson 8: Areas of Composite Figures in Real-World Situations 6 M5 Lesson 9: Properties of Solids 6 M5 Lesson 10: Discovering Nets of Solids 6 M5 Lesson 11: Constructing Nets of Solids 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 15: Exploring Volume 6 M5 Lesson 16: Applying Volume Formulas 6 M5 Lesson 17: Problem Solving with Volume 6 M5 Lesson 18: Volumes of Composite Solids 6 M5 Lesson 19: Volume and Surface Area in Real-World Situations

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 Lesson 1: Posing Statistical Questions 6 M6 Lesson 2: Describing a Data Distribution 6 M6 Lesson 3: Creating a Dot Plot 6 M6 Lesson 4: Creating a Histogram 6 M6 Lesson 5: Comparing Data Displays 6 M6 Lesson 6: Selecting a Data Display 6 M6 Lesson 7: Using the Mean to Describe the Center 6 M6 Lesson 8: The Mean as a Balance Point 6 M6 Lesson 9: Variability in a Data Distribution 6 M6 Lesson 10: The Mean Absolute Deviation 6 M6 Lesson 11: Using the Mean and Mean Absolute Deviation 6 M6 Lesson 12: Using the Median to Describe the Center 6 M6 Lesson 13: Using the Interquartile Range to Describe Variability 6 M6 Lesson 14: Using a Box Plot to Summarize a Distribution 6 M6 Lesson 15: More Practice with Box Plots 6 M6 Lesson 16: Interpreting Box Plots 6 M6 Lesson 17: Developing a Statistical Project 6 M6 Lesson 18: Connecting Graphical Representations and Summary Measures 6 M6 Lesson 19: Comparing Data Distributions 6 M6 Lesson 20: Choosing a Measure of Center 6 M6 Lesson 21: Comparing Measures of Variability 6 M6 Lesson 22: Presenting Statistical Projects