Grade 6 | Wyoming Mathematics Content and Performance Standards (2023 Emended 2025) 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.

Ratios and Proportional Relationships

Understand ratio concepts and use ratio reasoning to solve problems.

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.RP.3 Use ratio and rate reasoning to solve real-world and mathematical problems.	6 M1 Lesson 1: Jars of Jelly Beans 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 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 M4 Lesson 22: Relationship Between Two Variables 6 M4 Lesson 23: Graphs of Ratio Relationships

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.RP.3A Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare 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 18: Comparing Rates
6.RP.3B Solve unit rate problems including those involving unit pricing and constant speed.	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 M5 Lesson 8: Areas of Composite Figures in Real-World Situations 6 M5 Lesson 13: Surface Area in Real-World Situations

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.RP.3C Understand that a percentage is a rate per 100 and use this to solve problems involving wholes, parts, and percentages.	6 M1 Lesson 22: Introduction to Percents 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.RP.3D Use ratio reasoning to convert measurement units; convert units appropriately when multiplying or dividing quantities.	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

The Number System

Apply and extend previous understandings of multiplication and division to divide fractions by fractions.

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.NS.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions by using visual fraction models and equations to represent the problem.	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

The Number System

Compute fluently with multi-digit numbers and find common factors and multiples.

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.NS.3 Add, subtract, multiply, and divide manageable multi-digit decimals using efficient and generalizable procedures including, but not limited to the standard algorithm for each operation.	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 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

The Number System

Apply and extend previous understandings of numbers to the system of rational numbers.

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.NS.7 Understand ordering and absolute value of rational numbers.	*This standard is fully addressed by the lessons aligned to its subsections.*
6.NS.7A Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram.	6 M3 Lesson 5: Comparing Rational Numbers 6 M3 Lesson 6: Ordering Rational Numbers

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.NS.7B Write, interpret, and explain statements of order for rational numbers in real-world contexts.	6 M3 Lesson 5: Comparing Rational Numbers 6 M3 Lesson 6: Ordering Rational Numbers
6.NS.7C Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.	6 M3 Lesson 7: Absolute Value
6.NS.7D Distinguish comparisons of absolute value from statements about order.	6 M3 Lesson 8: Absolute Value and Order 6 M3 Lesson 9: Interpreting Order and Distance in Real-World Situations
6.NS.8 Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Find distances between points with the same first coordinate or the same second coordinate; relate absolute value and distance.	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

Expressions and Equations

Apply and extend previous understandings of arithmetic to algebraic expressions.

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.EE.2 Write, read, and evaluate expressions in which letters stand for numbers.	*This standard is fully addressed by the lessons aligned to its subsections.*
6.EE.2A Write expressions that record operations with numbers and with letters standing for numbers.	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.EE.2B Identify parts of an expression using mathematical terms (sum, difference, term, product, factor, quotient, coefficient, constant).	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.EE.2C Use Order of Operations to evaluate algebraic expressions at using positive rational numbers and whole-number exponents. Include expressions that arise from formulas in real-world problems.	6 M4 Lesson 8: Algebraic Expressions with Addition, Subtraction, Multiplication, and Division 6 M4 Lesson 11: Modeling Real-World Situations with Expressions 6 M4 Lesson 12: Applying Properties to Multiplication and Division 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 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

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.EE.3 Apply the properties of operations to generate equivalent 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 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

Expressions and Equations

Reason about and solve one-variable equations and inequalities.

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.EE.6 Use variables to represent unknown numbers and write expressions when solving a real-world or mathematical problem.	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.EE.7 Write and solve real-world and mathematical problems in the form of one-step, linear equations involving nonnegative rational numbers.	6 M4 Lesson 17: Equations 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

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.EE.8 Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	6 M4 Lesson 18: Inequalities and Solutions

Geometry

Solve real-world and mathematical problems involving area, surface area, and volume.

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.G.1 Find area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	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

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.G.4 Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures in the context of solving real-world and mathematical problems.	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 19: Volume and Surface Area in Real-World Situations

Statistics and Probability

Summarize and describe distributions.

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.SP.4 Display numerical data in plots on a number line, including dot plots, stem-and-leaf plots, histograms, and box plots.	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 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 19: Comparing Data Distributions 6 M6 Lesson 22: Presenting Statistical Projects

Wyoming Mathematics Content and Performance Standards	Aligned Components of *Eureka Math²*
6.SP.5 Summarize numerical data sets in relation to their real-world context.	*This standard is fully addressed by the lessons aligned to its subsections.*
6.SP.5A Report the sample size.	6 M6 Lesson 2: Describing a Data Distribution
6.SP.5B Describe the context of the data under investigation, including how it was measured and its units of measurement.	6 M6 Lesson 1: Posing Statistical Questions 6 M6 Lesson 5: Comparing Data Displays 6 M6 Lesson 17: Developing a Statistical Project 6 M6 Lesson 21: Comparing Measures of Variability
6.SP.5C Find quantitative measures of center (median, mode and mean) and variability (range and interquartile range). Describe any overall pattern (including outliers, clusters, and distribution), with reference to the context in which the data was gathered.	6 M6 Lesson 7: Using the Mean to Describe the Center 6 M6 Lesson 8: The Mean as a Balance Point 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 18: Connecting Graphical Representations and Summary Measures 6 M6 Lesson 21: Comparing Measures of Variability
6.SP.5D Justify the choice of measures of center (median, mode, or mean) based on the shape of the data distribution and the context in which the data was gathered.	6 M6 Lesson 20: Choosing a Measure of Center