Grade 5 | Missouri Mathematics Learning Standards (2016) 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.

Number Sense and Operations in Base Ten

5.NBT.A Use place value system understanding to perform operations with multi-digit whole numbers to billions and decimals to thousandths.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NBT.A.1 Read, write and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.	4 M1 Lesson 5: Organize, count, and represent a collection of objects. 4 M1 Lesson 7: Write numbers to $1{,}000{,}000$ in unit form and expanded form by using place value structure. 4 M1 Lesson 8: Write numbers to $1{,}000{,}000$ in standard form and word form. 4 M1 Lesson 10: Name numbers by using place value understanding. 4 M1 Lesson 11: Find 1, 10, and 100 thousand more than and less than a given number. 5 M4 Lesson 1: Model and relate decimal place value units to thousandths. 5 M4 Lesson 2: Represent thousandths as a place value unit. 5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms. 5 M4 Lesson 6: Compare decimal numbers to the thousandths place.
5.NBT.A.2 Compare two numbers from billions to thousandths using the symbols $>$, $=$ or $<$, and justify the solution.	4 M1 Lesson 9: Compare numbers within $1{,}000{,}000$ by using $>$, $=$, and $<$. 5 M4 Lesson 6: Compare decimal numbers to the thousandths place.
5.NBT.A.3 Understand that in a multi-digit number, a digit represents $\frac{1}{10}$ times what it would represent in the place to its left.	5 M1 Lesson 1: Relate adjacent place value units by using place value understanding. 5 M1 Lesson 2: Multiply and divide by 10, 100, and $1{,}000$ and identify patterns in the products and quotients. 5 M4 Lesson 1: Model and relate decimal place value units to thousandths. 5 M4 Lesson 2: Represent thousandths as a place value unit. 5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms. 5 M4 Lesson 4: Relate the values of digits in a decimal number by using place value understanding.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NBT.A.4 Evaluate the value of powers of 10 and understand the relationship to the place value system.	5 M1 Lesson 2: Multiply and divide by 10, 100, and 1,000 and identify patterns in the products and quotients. 5 M1 Lesson 3: Use exponents to multiply and divide by powers of 10. 5 M1 Lesson 4: Estimate products and quotients by using powers of 10 and their multiples. 5 M4 Lesson 5: Multiply and divide decimal numbers by powers of 10.
5.NBT.A.5 Round numbers from billions to thousandths place.	4 M1 Lesson 12: Round to the nearest thousand. 4 M1 Lesson 13: Round to the nearest ten thousand and hundred thousand. 4 M1 Lesson 14: Round multi-digit numbers to any place. 4 M1 Lesson 15: Apply estimation to real-world situations by using rounding. 5 M4 Lesson 7: Round decimal numbers to the nearest one, tenth, or hundredth. 5 M4 Lesson 8: Round decimal numbers to any place value unit.
5.NBT.A.6 Add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.	4 M1 Lesson 16: Add by using the standard algorithm. 4 M1 Lesson 17: Solve multi-step addition word problems by using the standard algorithm. 4 M1 Lesson 18: Subtract by using the standard algorithm, decomposing larger units once. 4 M1 Lesson 19: Subtract by using the standard algorithm, decomposing larger units up to 3 times. 4 M1 Lesson 20: Subtract by using the standard algorithm, decomposing larger units multiple times. 4 M1 Lesson 21: Solve two-step word problems by using addition and subtraction. 4 M1 Lesson 22: Solve multi-step word problems by using addition and subtraction. 5 M4 Lesson 9: Add decimal numbers by using different methods. 5 M4 Lesson 10: Add decimal numbers by using place value understanding. 5 M4 Lesson 11: Subtract decimal numbers by using different methods. 5 M4 Lesson 12: Subtract decimal numbers by using place value understanding.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NBT.A.7 Multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.	5 M1 Lesson 7: Multiply by using familiar methods. 5 M1 Lesson 8: Multiply two- and three-digit numbers by two-digit numbers by using the distributive property. 5 M1 Lesson 9: Multiply two- and three-digit numbers by two-digit numbers by using the standard algorithm. 5 M1 Lesson 10: Multiply three- and four-digit numbers by three-digit numbers by using the standard algorithm. 5 M1 Lesson 11: Multiply two multi-digit numbers by using the standard algorithm. 5 M4 Lesson 14: Multiply decimal numbers to hundredths by one-digit whole numbers by using different models. 5 M4 Lesson 15: Multiply decimal numbers to hundredths by one-digit whole numbers and multiples of 10, 100, or $1{,}000$ by using different written methods. 5 M4 Lesson 16: Multiply decimal numbers to hundredths by two-digit whole numbers by using area models and vertical form. 5 M4 Lesson 17: Multiply decimal numbers to hundredths by two-digit whole numbers by using different methods. 5 M4 Lesson 18: Relate decimal number multiplication to fraction multiplication. 5 M4 Lesson 19: Multiply a decimal number by a decimal number.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NBT.A.8 Divide multi-digit whole numbers and decimals to the hundredths place using up to two-digit divisors and four-digit dividends, and justify the solution.	5 M1 Lesson 12: Divide two- and three-digit numbers by multiples of 10. 5 M1 Lesson 13: Divide two-digit numbers by two-digit numbers in problems that result in one-digit quotients. 5 M1 Lesson 14: Divide three-digit numbers by two-digit numbers in problems that result in one-digit quotients. 5 M1 Lesson 15: Divide three-digit numbers by two-digit numbers in problems that result in two-digit quotients. 5 M1 Lesson 16: Divide four-digit numbers by two-digit numbers. 5 M4 Lesson 20: Divide decimal numbers to hundredths by one-digit whole numbers and multiples of 10, 100, or $1{,}000$ by using unit form and place value understanding. 5 M4 Lesson 21: Divide decimal numbers to hundredths by one-digit whole numbers and multiples of 10, 100, or $1{,}000$ by using place value understanding and vertical form. 5 M4 Lesson 22: Divide decimal numbers to hundredths by two-digit whole numbers. 5 M4 Lesson 23: Relate division by 0.1 and 0.01 to division by a unit fraction. 5 M4 Lesson 24: Divide decimal numbers by decimal numbers, resulting in whole-number quotients. 5 M4 Lesson 25: Divide decimal numbers by decimal numbers, resulting in decimal-number quotients.

Number Sense and Operations in Fractions

5.NF.A Understand the relationship between fractions and decimals (denominators that are factors of 100).

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NF.A.1 Understand that parts of a whole can be expressed as fractions and/or decimals.	4 M5 Lesson 2: Decompose 1 one and express tenths in fraction form and decimal form. 4 M5 Lesson 3: Represent tenths as a place value unit. 4 M5 Lesson 4: Write mixed numbers in decimal form with tenths. 4 M5 Lesson 5: Decompose 1 one and express hundredths in fraction form and decimal form. 4 M5 Lesson 6: Represent hundredths as a place value unit. 4 M5 Lesson 7: Write mixed numbers in decimal form with hundredths. 4 M5 Lesson 8: Represent decimal numbers in expanded form.
5.NF.A.2 Convert decimals to fractions and fractions to decimals.	5 M4 Lesson 13: Solve word problems involving addition and subtraction of decimal numbers and fractions.
5.NF.A.3 Compare and order fractions and/or decimals to the thousandths place using the symbols $>$, $=$ or $<$, and justify the solution.	4 M4 Lesson 13: Compare fractions by using the benchmarks, 0, $\frac{1}{2}$, and 1. 4 M4 Lesson 14: Compare fractions with related denominators. 4 M4 Lesson 15: Compare fractions with related numerators. 4 M4 Lesson 16: Generate a common numerator or denominator to compare fractions. 4 M4 Lesson 17: Apply fraction comparison strategies to compare fractions greater than 1. 5 M4 Lesson 6: Compare decimal numbers to the thousandths place.

Number Sense and Operations in Fractions

5.NF.B Perform operations and solve problems with fractions and decimals.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NF.B.4 Estimate results of sums, differences and products with fractions and decimals to the thousandths.	5 M2 Lesson 10: Add whole numbers and mixed numbers and add mixed numbers with related units. 5 M2 Lesson 11: Add mixed numbers with unrelated units. 5 M2 Lesson 12: Subtract whole numbers from mixed numbers and mixed numbers from whole numbers. 5 M2 Lesson 13: Subtract mixed numbers from mixed numbers with related units. 5 M2 Lesson 14: Subtract mixed numbers from mixed numbers with unrelated units. 5 M2 Lesson 17: Solve problems by equally redistributing a total amount. 5 M3 Lesson 1: Find fractions of a set with arrays. 5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines. 5 M3 Lesson 3: Multiply a whole number by a fraction less than 1. 5 M3 Lesson 4: Multiply a whole number by a fraction. 5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units. 5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units. 5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially. 5 M3 Lesson 8: Multiply fractions less than 1 pictorially. 5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems. 5 M3 Lesson 10: Multiply fractions greater than 1 by fractions. 5 M3 Lesson 11: Multiply fractions. 5 M4 Lesson 9: Add decimal numbers by using different methods. 5 M4 Lesson 10: Add decimal numbers by using place value understanding. 5 M4 Lesson 11: Subtract decimal numbers by using different methods.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NF.B.4 ***continued***	5 M4 Lesson 12: Subtract decimal numbers by using place value understanding. 5 M4 Lesson 14: Multiply decimal numbers to hundredths by one-digit whole numbers by using different models. 5 M4 Lesson 15: Multiply decimal numbers to hundredths by one-digit whole numbers and multiples of 10, 100, or $1{,}000$ by using different written methods. 5 M4 Lesson 16: Multiply decimal numbers to hundredths by two-digit whole numbers by using area models and vertical form. 5 M4 Lesson 17: Multiply decimal numbers to hundredths by two-digit whole numbers by using different methods. 5 M4 Lesson 18: Relate decimal number multiplication to fraction multiplication. 5 M4 Lesson 19: Multiply a decimal number by a decimal number. 5 M5 Lesson 12: Multiply mixed numbers.
5.NF.B.5 Justify the reasonableness of a product when multiplying with fractions.	5 M3 Lesson 1: Find fractions of a set with arrays. 5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines. 5 M3 Lesson 4: Multiply a whole number by a fraction. 5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units. 5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units. 5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially. 5 M3 Lesson 8: Multiply fractions less than 1 pictorially. 5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems. 5 M3 Lesson 10: Multiply fractions greater than 1 by fractions. 5 M3 Lesson 11: Multiply fractions.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NF.B.5.a Estimate the size of the product based on the size of the two factors.	5 M3 Lesson 1: Find fractions of a set with arrays. 5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines. 5 M3 Lesson 3: Multiply a whole number by a fraction less than 1. 5 M3 Lesson 4: Multiply a whole number by a fraction. 5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units. 5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units. 5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially. 5 M3 Lesson 8: Multiply fractions less than 1 pictorially. 5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems. 5 M3 Lesson 10: Multiply fractions greater than 1 by fractions. 5 M3 Lesson 11: Multiply fractions.
5.NF.B.5.b Explain why multiplying a given number by a fraction greater than 1 results in a product larger than the given number.	5 M3 Lesson 1: Find fractions of a set with arrays. 5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines. 5 M3 Lesson 4: Multiply a whole number by a fraction. 5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units. 5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units. 5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially. 5 M3 Lesson 8: Multiply fractions less than 1 pictorially. 5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems. 5 M3 Lesson 10: Multiply fractions greater than 1 by fractions. 5 M3 Lesson 11: Multiply fractions.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NF.B.5.c Explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number.	5 M3 Lesson 1: Find fractions of a set with arrays. 5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines. 5 M3 Lesson 4: Multiply a whole number by a fraction. 5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units. 5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units. 5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially. 5 M3 Lesson 8: Multiply fractions less than 1 pictorially. 5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems. 5 M3 Lesson 10: Multiply fractions greater than 1 by fractions. 5 M3 Lesson 11: Multiply fractions.
5.NF.B.5.d Explain why multiplying the numerator and denominator by the same number is equivalent to multiplying the fraction by 1.	5 M3 Lesson 1: Find fractions of a set with arrays. 5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines. 5 M3 Lesson 4: Multiply a whole number by a fraction. 5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units. 5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units. 5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially. 5 M3 Lesson 8: Multiply fractions less than 1 pictorially. 5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems. 5 M3 Lesson 10: Multiply fractions greater than 1 by fractions. 5 M3 Lesson 11: Multiply fractions.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NF.B.6 Solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators, and justify the solution.	5 M2 Lesson 5: Add and subtract fractions with related units by using pictorial models. 5 M2 Lesson 6: Add and subtract fractions with related units by using area models to rename fractions. 5 M2 Lesson 7: Add and subtract fractions with related units by finding equivalent fractions numerically. 5 M2 Lesson 8: Add and subtract fractions with unrelated units by finding equivalent fractions pictorially. 5 M2 Lesson 9: Add and subtract fractions with unrelated units by finding equivalent fractions numerically. 5 M2 Lesson 10: Add whole numbers and mixed numbers and add mixed numbers with related units. 5 M2 Lesson 11: Add mixed numbers with unrelated units. 5 M2 Lesson 12: Subtract whole numbers from mixed numbers and mixed numbers from whole numbers. 5 M2 Lesson 13: Subtract mixed numbers from mixed numbers with related units. 5 M2 Lesson 14: Subtract mixed numbers from mixed numbers with unrelated units. 5 M2 Lesson 17: Solve problems by equally redistributing a total amount.
5.NF.B.7 Extend the concept of multiplication to multiply a fraction or whole number by a fraction.	5 M3 Lesson 3: Multiply a whole number by a fraction less than 1. 5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems. 5 M3 Lesson 10: Multiply fractions greater than 1 by fractions. 5 M5 Lesson 12: Multiply mixed numbers.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NF.B.7.a Recognize the relationship between multiplying fractions and finding the areas of rectangles with fractional side lengths.	5 M5 Lesson 8: Find areas of square tiles with fraction side lengths by relating the tile to a unit square. 5 M5 Lesson 9: Organize, count, and represent a collection of square tiles. 5 M5 Lesson 10: Find the area of a rectangle with fraction side lengths by relating the rectangle to a unit square. 5 M5 Lesson 11: Find areas of rectangles with fraction side lengths by using multiplication. 5 M5 Lesson 12: Multiply mixed numbers. 5 M5 Lesson 13: Solve mathematical problems involving areas of composite figures with mixed-number side lengths. 5 M5 Lesson 14: Solve real-world problems involving areas of composite figures with mixed-number side lengths. 5 M6 Lesson 15: Use the coordinate plane to reason about perimeters and areas of rectangles.
5.NF.B.7.b Calculate and interpret the product of a fraction by a whole number and a whole number by a fraction.	4 M4 Lesson 31: Decompose non-unit fractions into a product of a whole number and a unit fraction. 4 M4 Lesson 32: Multiply a fraction by a whole number by using the associative property. 4 M4 Lesson 33: Solve word problems involving multiplication of a fraction by a whole number. 4 M4 Lesson 34: Multiply a mixed number by a whole number by using the distributive property. 5 M3 Lesson 1: Find fractions of a set with arrays. 5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines. 5 M3 Lesson 3: Multiply a whole number by a fraction less than 1. 5 M3 Lesson 4: Multiply a whole number by a fraction. 5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units. 5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units. 5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially. 5 M3 Lesson 8: Multiply fractions less than 1 pictorially. 5 M3 Lesson 11: Multiply fractions.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NF.B.7.c Calculate and interpret the product of two fractions less than one.	5 M5 Lesson 8: Find areas of square tiles with fraction side lengths by relating the tile to a unit square. 5 M5 Lesson 9: Organize, count, and represent a collection of square tiles. 5 M5 Lesson 10: Find the area of a rectangle with fraction side lengths by relating the rectangle to a unit square. 5 M5 Lesson 11: Find areas of rectangles with fraction side lengths by using multiplication. 5 M5 Lesson 12: Multiply mixed numbers. 5 M5 Lesson 13: Solve mathematical problems involving areas of composite figures with mixed-number side lengths. 5 M5 Lesson 14: Solve real-world problems involving areas of composite figures with mixed-number side lengths. 5 M6 Lesson 15: Use the coordinate plane to reason about perimeters and areas of rectangles.
5.NF.B.8 Extend the concept of division to divide unit fractions and whole numbers by using visual fraction models and equations.	*This standard is fully addressed by the lessons aligned to its subsections.*
5.NF.B.8.a Calculate and interpret the quotient of a unit fraction by a non-zero whole number.	5 M3 Lesson 14: Divide a unit fraction by a nonzero whole number. 5 M3 Lesson 15: Divide by whole numbers and unit fractions. 5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers. 5 M3 Lesson 19: Create and solve one-step word problems involving fractions.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.NF.B.8.b Calculate and interpret the quotient of a whole number by a unit fraction.	5 M3 Lesson 12: Divide a nonzero whole number by a unit fraction to find the number of groups. 5 M3 Lesson 13: Divide a nonzero whole number by a unit fraction to find the size of the group. 5 M3 Lesson 15: Divide by whole numbers and unit fractions. 5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers. 5 M3 Lesson 19: Create and solve one-step word problems involving fractions.

Relationships and Algebraic Thinking

5.RA.A Represent and analyze patterns and relationships.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.RA.A.1 Investigate the relationship between two numeric patterns.	*This standard is fully addressed by the lessons aligned to its subsections.*
5.RA.A.1.a Generate two numeric patterns given two rules.	5 M6 Lesson 7: Generate number patterns to form ordered pairs. 5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns. 5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns. 5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines. 5 M6 Lesson 20: Reason about patterns in real-world situations.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.RA.A.1.b Translate two numeric patterns into two sets of ordered pairs.	5 M6 Lesson 7: Generate number patterns to form ordered pairs. 5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns. 5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns. 5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines. 5 M6 Lesson 20: Reason about patterns in real-world situations.
5.RA.A.1.c Graph numeric patterns on the Cartesian coordinate plane.	5 M6 Lesson 7: Generate number patterns to form ordered pairs. 5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns. 5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns. 5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines. 5 M6 Lesson 20: Reason about patterns in real-world situations.
5.RA.A.1.d Identify the relationship between two numeric patterns.	5 M6 Lesson 7: Generate number patterns to form ordered pairs. 5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns. 5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns. 5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines. 5 M6 Lesson 20: Reason about patterns in real-world situations.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.RA.A.2 Write a rule to describe or explain a given numeric pattern.	5 M6 Lesson 7: Generate number patterns to form ordered pairs. 5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns. 5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns. 5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines. 5 M6 Lesson 20: Reason about patterns in real-world situations.

Relationships and Algebraic Thinking

5.RA.B Write and interpret numerical expressions.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.RA.B.3 Write, evaluate and interpret numeric expressions using the order of operations.	5 M1 Lesson 7: Multiply by using familiar methods. 5 M1 Lesson 8: Multiply two- and three-digit numbers by two-digit numbers by using the distributive property. 5 M1 Lesson 17: Write, interpret, and compare numerical expressions. 5 M1 Lesson 18: Create and solve real-world problems for given numerical expressions. 5 M1 Lesson 19: Solve multi-step word problems involving multiplication and division. 5 M1 Lesson 20: Solve multi-step word problems involving the four operations. 5 M1 Lesson 21: Express a composite number to 50 as a product of its prime factors. 5 M3 Lesson 18: Compare and evaluate expressions with parentheses. 5 M3 Lesson 22: Evaluate expressions involving nested grouping symbols. 5 M4 Lesson 29: Interpret, evaluate, and compare numerical expressions involving decimals. 5 M4 Lesson 30: Create and solve real-world problems for given numerical expressions involving decimals. *Supplemental material is necessary to address the order of operations.*

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.RA.B.4 Translate written expressions into algebraic expressions.	5 M1 Lesson 17: Write, interpret, and compare numerical expressions. 5 M1 Lesson 18: Create and solve real-world problems for given numerical expressions. 5 M1 Lesson 19: Solve multi-step word problems involving multiplication and division. 5 M1 Lesson 20: Solve multi-step word problems involving the four operations. 5 M1 Lesson 21: Express a composite number to 50 as a product of its prime factors. 5 M3 Lesson 12: Divide a nonzero whole number by a unit fraction to find the number of groups. 5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers. 5 M3 Lesson 18: Compare and evaluate expressions with parentheses. 5 M4 Lesson 29: Interpret, evaluate, and compare numerical expressions involving decimals. 5 M4 Lesson 30: Create and solve real-world problems for given numerical expressions involving decimals.

Relationships and Algebraic Thinking

5.RA.C Use the four operations to represent and solve problems.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.RA.C.5 Solve and justify multi-step problems involving variables, whole numbers, fractions and decimals.	5 M1 Lesson 19: Solve multi-step word problems involving multiplication and division. 5 M1 Lesson 20: Solve multi-step word problems involving the four operations. 5 M2 Lesson 1: Interpret a fraction as division. 5 M2 Lesson 2: Interpret a fraction as division by writing remainders as fractions. 5 M2 Lesson 3: Represent fractions as division by using models. 5 M2 Lesson 4: Solve word problems involving division and fractions. 5 M3 Lesson 17: Solve word problems involving fractions with multiplication and division. 5 M3 Lesson 20: Solve multi-step word problems involving fractions and write equations with parentheses. 5 M3 Lesson 21: Solve multi-step word problems involving fractions. 5 M4 Lesson 13: Solve word problems involving addition and subtraction of decimal numbers and fractions. 5 M5 Lesson 14: Solve real-world problems involving areas of composite figures with mixed-number side lengths. 5 M5 Lesson 15: Solve multi-step word problems involving multiplication of mixed numbers. *Supplemental material is necessary to address multi-step problems involving decimals.*

Geometry and Measurement

5.GM.A Classify two- and three-dimensional geometric shapes.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.GM.A.1 Understand that attributes belonging to a category of figures also belong to all subcategories.	5 M5 Lesson 1: Analyze hierarchies and identify properties of quadrilaterals. 5 M5 Lesson 2: Classify trapezoids based on their properties. 5 M5 Lesson 3: Classify parallelograms based on their properties. 5 M5 Lesson 4: Classify rectangles and rhombuses based on their properties. 5 M5 Lesson 5: Classify kites and squares based on their properties. 5 M5 Lesson 6: Identify quadrilaterals from given properties. 5 M5 Lesson 7: Classify quadrilaterals in a hierarchy based on properties.
5.GM.A.2 Classify figures in a hierarchy based on properties.	5 M5 Lesson 1: Analyze hierarchies and identify properties of quadrilaterals. 5 M5 Lesson 2: Classify trapezoids based on their properties. 5 M5 Lesson 3: Classify parallelograms based on their properties. 5 M5 Lesson 4: Classify rectangles and rhombuses based on their properties. 5 M5 Lesson 5: Classify kites and squares based on their properties. 5 M5 Lesson 6: Identify quadrilaterals from given properties. 5 M5 Lesson 7: Classify quadrilaterals in a hierarchy based on properties. 5 M6 Lesson 12: Graph and classify quadrilaterals in the coordinate plane.
5.GM.A.3 Analyze and describe the properties of prisms and pyramids.	5 M5 Lesson 16: Identify attributes and properties of right rectangular prisms. *Supplemental material is necessary to address the properties of pyramids and prisms other than right rectangular prisms.*

Geometry and Measurement

5.GM.B Understand and compute volume.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.GM.B.4 Understand the concept of volume and recognize that volume is measured in cubic units.	*This standard is fully addressed by the lessons aligned to its subsections.*
5.GM.B.4.a Describe a cube with edge length 1 unit as a "unit cube" and is said to have "one cubic unit" of volume and can be used to measure volume.	5 M5 Lesson 16: Identify attributes and properties of right rectangular prisms. 5 M5 Lesson 17: Find the volume of right rectangular prisms by packing with unit cubes and counting. 5 M5 Lesson 18: Find the volume of right rectangular prisms by packing with improvised units. 5 M5 Lesson 19: Compose and decompose right rectangular prisms to find their volume by using layers. 5 M5 Lesson 20: Interpret volume as filling. 5 M5 Lesson 21: Relate volumes of solids and liquid volume.
5.GM.B.4.b Understand that the volume of a right rectangular prism can be found by stacking multiple layers of the base.	5 M5 Lesson 16: Identify attributes and properties of right rectangular prisms. 5 M5 Lesson 17: Find the volume of right rectangular prisms by packing with unit cubes and counting. 5 M5 Lesson 19: Compose and decompose right rectangular prisms to find their volume by using layers. 5 M5 Lesson 20: Interpret volume as filling. 5 M5 Lesson 21: Relate volumes of solids and liquid volume. 5 M5 Lesson 22: Find the volumes of right rectangular prisms by using the area of the base. 5 M5 Lesson 23: Find the volumes of right rectangular prisms by multiplying the edge lengths.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.GM.B.5 Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for volume of right rectangular prisms with whole-number edge lengths.	5 M5 Lesson 22: Find the volumes of right rectangular prisms by using the area of the base. 5 M5 Lesson 23: Find the volumes of right rectangular prisms by multiplying the edge lengths. 5 M5 Lesson 24: Solve word problems involving volumes of right rectangular prisms. 5 M5 Lesson 25: Find the volumes of solid figures composed of right rectangular prisms. 5 M5 Lesson 26: Solve word problems involving perimeter, area, and volume. 5 M5 Lesson 27: Apply concepts and formulas of volume to design a sculpture by using right rectangular prisms, part 1. 5 M5 Lesson 28: Apply concepts and formulas of volume to design a sculpture by using right rectangular prisms, part 2.

Geometry and Measurement

5.GM.C Graph points on the Cartesian coordinate plane within the first quadrant to solve problems.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.GM.C.6 Define a first quadrant Cartesian coordinate system.	*This standard is fully addressed by the lessons aligned to its subsections.*
5.GM.C.6.a Represent the axes as scaled perpendicular number lines that both intersect at 0, the origin.	5 M6 Lesson 1: Construct a coordinate system on a line. 5 M6 Lesson 2: Construct a coordinate system in a plane. 5 M6 Lesson 3: Identify and plot points by using ordered pairs.
5.GM.C.6.b Identify any point on the Cartesian coordinate plane by its ordered pair coordinates.	5 M6 Lesson 1: Construct a coordinate system on a line. 5 M6 Lesson 2: Construct a coordinate system in a plane. 5 M6 Lesson 3: Identify and plot points by using ordered pairs.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.GM.C.6.c Define the first number in an ordered pair as the horizontal distance from the origin.	5 M6 Lesson 1: Construct a coordinate system on a line. 5 M6 Lesson 2: Construct a coordinate system in a plane. 5 M6 Lesson 3: Identify and plot points by using ordered pairs.
5.GM.C.6.d Define the second number in an ordered pair as the vertical distance from the origin.	5 M6 Lesson 1: Construct a coordinate system on a line. 5 M6 Lesson 2: Construct a coordinate system in a plane. 5 M6 Lesson 3: Identify and plot points by using ordered pairs.
5.GM.C.7 Plot and interpret points in the first quadrant of the Cartesian coordinate plane.	5 M6 Lesson 4: Describe the distance and direction between points in the coordinate plane. 5 M6 Lesson 5: Identify properties of horizontal and vertical lines. 5 M6 Lesson 6: Use properties of horizontal and vertical lines to solve problems. 5 M6 Lesson 7: Generate number patterns to form ordered pairs. 5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns. 5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns. 5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines. 5 M6 Lesson 12: Graph and classify quadrilaterals in the coordinate plane. 5 M6 Lesson 13: Draw symmetric figures in the coordinate plane. 5 M6 Lesson 14: Solve mathematical problems with rectangles in the coordinate plane. 5 M6 Lesson 15: Use the coordinate plane to reason about perimeters and areas of rectangles. 5 M6 Lesson 16: Interpret graphs that represent real-world situations. 5 M6 Lesson 17: Plot data in the coordinate plane and analyze relationships. 5 M6 Lesson 18: Interpret line graphs. 5 M6 Lesson 20: Reason about patterns in real-world situations.

Geometry and Measurement

5.GM.D Solve problems involving measurement and conversions within a measurement system.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.GM.D.8 Convert measurements of capacity, length and weight within a given measurement system.	5 M1 Lesson 5: Convert measurements and describe relationships between metric units. 5 M1 Lesson 6: Solve multi-step word problems by using metric measurement conversion. 5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units. 5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units. 5 M4 Lesson 26: Solve a real-world problem involving metric measurements. 5 M4 Lesson 27: Convert metric measurements involving decimals. 5 M4 Lesson 28: Convert customary measurements involving decimals.
5.GM.D.9 Solve multi-step problems that require measurement conversions.	5 M1 Lesson 5: Convert measurements and describe relationships between metric units. 5 M1 Lesson 6: Solve multi-step word problems by using metric measurement conversion. 5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units. 5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units. 5 M4 Lesson 26: Solve a real-world problem involving metric measurements. 5 M4 Lesson 27: Convert metric measurements involving decimals. 5 M4 Lesson 28: Convert customary measurements involving decimals.

Data and Statistics

5.DS.A Represent and analyze data.

Missouri Mathematics Learning Standards	Aligned Components of *Eureka Math²*
5.DS.A.1 Create a line graph to represent a data set, and analyze the data to answer questions and solve problems.	5 M6 Lesson 18: Interpret line graphs.
5.DS.A.2 Create a line plot to represent a given or generated data set, and analyze the data to answer questions and solve problems, recognizing the outliers and generating the median.	5 M2 Lesson 15: Represent data on a line plot. 5 M2 Lesson 16: Solve problems by using data from a line plot. 5 M2 Lesson 17: Solve problems by equally redistributing a total amount. *Supplemental material is necessary to address recognizing the outliers and generating the median.*