EUREKA MATH².

Grade 4 | West Virginia College- and Career-Readiness Standards for Mathematics Correlation to *Eureka Math*^{2®}

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 Math*^{2®}, 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 Math*² 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* and moments that have been delighting students and teachers for years, it also boasts these exciting new features:

Teachability

*Eureka Math*² employs streamlined materials that allow teachers to plan more efficiently and focus their energy on delivering highquality 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 Math*² 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 Math*² 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 Math*² 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.

Mathematical Habits of Mind	Aligned Components of Eureka Math ²
MHM.1 Make sense of problems and persevere in solving them.	Lessons in every module engage students in mathematical habits of mind. These are indicated in margin notes included with every lesson.
MHM.2	Lessons in every module engage students in mathematical habits
Reason abstractly and quantitatively.	of mind. These are indicated in margin notes included with every lesson.
MHM.3	Lessons in every module engage students in mathematical habits
Construct viable arguments and critique the reasoning of others.	of mind. These are indicated in margin notes included with every lesson.
MHM.4	Lessons in every module engage students in mathematical habits
Model with mathematics.	of mind. These are indicated in margin notes included with every lesson.
MHM.5	Lessons in every module engage students in mathematical habits
Use appropriate tools strategically.	of mind. These are indicated in margin notes included with every lesson.
MHM.6	Lessons in every module engage students in mathematical habits
Attend to precision.	of mind. These are indicated in margin notes included with every lesson.
MHM.7	Lessons in every module engage students in mathematical habits
Look for and make use of structure.	of mind. These are indicated in margin notes included with every lesson.
MHM.8	Lessons in every module engage students in mathematical habits
Look for and express regularity in repeated reasoning.	of mind. These are indicated in margin notes included with every lesson.

Operations and Algebraic Thinking

Use the four operations with whole numbers to solve problems.

West Virginia College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

M.4.1 Interpret a multiplication equation as a comparison of two expressions (e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5). Represent verbal	 4 M1 Lesson 1: Interpret multiplication as multiplicative comparison. 4 M1 Lesson 2: Solve multiplicative comparison problems with unknowns in various positions. 4 M1 Lesson 3: Describe relationships between measurements by using multiplicative comparison. 4 M1 Lesson 4: Represent the composition of larger units of money by using multiplicative comparison.
statements of multiplicative comparisons as multiplication expressions and equations.	4 M1 Lesson 6: Demonstrate that a digit represents 10 times the value of what it represents in the place to its right.
M.4.2	4 M1 Lesson 1: Interpret multiplication as multiplicative comparison.
Multiply or divide to solve word problems involving multiplicative comparison (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem) and distinguish multiplicative comparison from additive comparison.	4 M1 Lesson 2: Solve multiplicative comparison problems with unknowns in various positions.
	4 M1 Lesson 3: Describe relationships between measurements by using multiplicative comparison.
	4 M1 Lesson 4: Represent the composition of larger units of money by using multiplicative comparison.
	4 M2 Lesson 9: Solve multiplication word problems.
	4 M2 Lesson 20: Solve word problems involving additive and multiplicative comparisons.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of Eureka Math ²
M.4.3	4 M1 Lesson 15: Apply estimation to real-world situations by using rounding.
Solve multi-step word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	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 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.
	4 M3 Lesson 21: Find whole-number quotients and remainders.
	4 M3 Lesson 22: Represent, estimate, and solve division word problems.
	4 M3 Lesson 23: Solve multi-step word problems and interpret remainders.
	4 M3 Lesson 24: Solve multi-step word problems and assess the reasonableness of solutions.

Operations and Algebraic Thinking

Gain familiarity with factors and multiples

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of Eureka Math ²
M.4.4 Find all factor pairs for a whole number in the range 1–100, recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1–100 is prime or composite.	 4 M2 Lesson 21: Find factor pairs for numbers up to 100 and use factors to identify numbers as prime or composite. 4 M2 Lesson 22: Use division and the associative property of multiplication to find factors. 4 M2 Lesson 23: Determine whether a whole number is a multiple of another number. 4 M2 Lesson 24: Recognize that a number is a multiple of each of its factors. 4 M2 Lesson 25: Explore properties of prime and composite numbers up to 100 by using multiples.

Operations and Algebraic Thinking

Generate and analyze patterns.

West Virginia College- and Career-Readiness Standards for Mathematics

M.4.5

4 M2 Lesson 26: Use relationships within a pattern to find an unknown term in the sequence.

Aligned Components of Eureka Math²

Generate a number pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself (e.g., given the rule "Add 3" and the starting number 1, generate terms in the resulting sequence and observe that the terms appear to alternate between odd and even numbers; explain informally why the numbers will continue to alternate in this way).

Number and Operations in Base Ten

Generalize place value understanding for multi-digit whole numbers.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of Eureka Math ²
M.4.6 Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right (e.g., recognize that $700 \div 70 = 10$ by applying concepts of place value and division).	4 M1 Lesson 6: Demonstrate that a digit represents 10 times the value of what it represents in the place to its right.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of Eureka Math ²
M.4.7	4 M1 Lesson 5: Organize, count, and represent a collection of objects.
Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, = and < symbols to record the results of comparisons. Order numbers based on place value.	 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 9: Compare numbers within 1,000,000 by using >, =, and <. 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.
M.4.8 Use place value understanding to round multi-digit whole numbers to any 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.

Number and Operations in Base Ten

Use place value understanding and properties of operations to perform multi-digit arithmetic.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
M.4.9	4 M1 Lesson 16: Add by using the standard algorithm.
Fluently (efficiently and accurately) add and subtract multi-digit whole numbers 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.

West Virginia College- and Career-

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
M.4.10	4 M2 Lesson 1: Multiply multiples of 10 by one-digit numbers by using the associative property of multiplication.
Multiply a whole number of up to four digits by a one-digit whole number, multiply	4 M2 Lesson 4: Multiply by using familiar strategies.
two two-digit numbers, using strategies based on place value and the properties	4 M2 Lesson 5: Multiply by using place value strategies and the distributive property.
of operations and illustrate and explain the calculation by using equations,	4 M2 Lesson 6: Multiply with regrouping by using place value strategies and the distributive property.
rectangular arrays, area models, and/or	4 M2 Lesson 7: Multiply by using an area model and the distributive property.
partial products.	4 M2 Lesson 8: Multiply by applying the distributive property and write equations.
	4 M2 Lesson 9: Solve multiplication word problems.
	4 M2 Lesson 10: Multiply by applying simplifying strategies.
	4 M3 Lesson 2: Multiply by multiples of 100 and 1,000.
	4 M3 Lesson 3: Multiply a two-digit multiple of 10 by a two-digit multiple of 10 .
	4 M3 Lesson 9: Apply place value strategies to multiply three-digit numbers by one-digit numbers.
	4 M3 Lesson 10: Apply place value strategies to multiply four-digit numbers by one-digit numbers.
	4 M3 Lesson 11: Represent multiplication by using partial products.
	4 M3 Lesson 12: Multiply by using various recording methods in vertical form.
	4 M3 Lesson 13: Multiply two-digit numbers by two-digit multiples of 10.
	4 M3 Lesson 14: Apply place value strategies to multiply two-digit numbers by two-digit numbers.
	4 M3 Lesson 15: Multiply with four partial products.
	4 M3 Lesson 16: Multiply with two partial products.
	4 M3 Lesson 17: Apply the distributive property to multiply.

West Virginia College- and Career-

Aligned Components of <i>Eureka Math</i> ²
4 M2 Lesson 2: Divide two- and three-digit multiples of 10 by one-digit numbers.
4 M2 Lesson 11: Divide by using familiar strategies.
4 M2 Lesson 12: Divide two-digit numbers by one-digit numbers by using an area model.
4 M2 Lesson 13: Divide three-digit numbers by one-digit numbers by using an area model.
4 M2 Lesson 14: Divide two-digit numbers by one-digit numbers by using place value strategies.
4 M2 Lesson 15: Divide three-digit numbers by one-digit numbers by using place value strategies.
4 M2 Lesson 16: Divide by using the break apart and distribute strategy.
4 M3 Lesson 1: Divide multiples of 100 and 1,000.
4 M3 Lesson 4: Apply place value strategies to divide hundreds, tens, and ones.
4 M3 Lesson 5: Apply place value strategies to divide thousands, hundreds, tens, and ones.
4 M3 Lesson 6: Connect pictorial representations of division to long division.
4 M3 Lesson 7: Represent division by using partial quotients.
4 M3 Lesson 8: Choose and apply a method to divide multi-digit numbers.
4 M3 Lesson 21: Find whole-number quotients and remainders.
4 M3 Lesson 22: Represent, estimate, and solve division word problems.

Number and Operations-Fractions

Extend understanding of fraction equivalence and ordering.

West Virginia College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

M.4.12 Explain why a fraction $\frac{a}{b}$ is equivalent to another fraction by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.	 4 M4 Lesson 8: Generate equivalent fractions with smaller units for unit fractions. 4 M4 Lesson 9: Generate equivalent fractions with smaller units for non-unit fractions. 4 M4 Lesson 10: Generate equivalent fractions with larger units. 4 M4 Lesson 11: Represent equivalent fractions by using tape diagrams, number lines, and multiplication or division.
	4 M4 Lesson 12: Generate equivalent fractions for fractions greater than 1 and generate equivalent mixed numbers.
M.4.13 Compare two fractions with different numerators and different denominators (e.g., by creating common denominators or common numerators, or by comparing to a benchmark fraction such as $\frac{1}{2}$). Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, = or <, and justify the conclusions by using a visual fraction model.	 4 M4 Lesson 13: Compare fractions by using the benchmarks 0, 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.

Number and Operations-Fractions

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
M.4.14	This standard is fully addressed by the lessons aligned to its subsections.
Understand the fraction $\frac{a}{b}$, with $a > 1$, as the sum of a of the fractions $\frac{1}{b}$.	
M.4.14.a	4 M4 Lesson 1: Decompose whole numbers into a sum of unit fractions.
Add and subtract fractions with like	4 M4 Lesson 2: Decompose fractions into a sum of unit fractions.
denominators. Understand addition	4 M4 Lesson 3: Decompose fractions into a sum of fractions.
and subtraction of fractions as joining and separating parts referring to the	4 M4 Lesson 4: Represent fractions by using various fraction models.
same whole.	4 M4 Lesson 5: Rename fractions greater than 1 as mixed numbers.
	4 M4 Lesson 6: Rename mixed numbers as fractions greater than 1.
	4 M4 Lesson 7: Rename fractions as a sum of equivalent smaller unit fractions.
	4 M4 Lesson 18: Estimate sums and differences of fractions by using benchmarks.
	4 M4 Lesson 19: Add and subtract fractions with like units.
	4 M4 Lesson 20: Subtract a fraction from a whole number.
	4 M4 Lesson 21: Solve addition and subtraction word problems and estimate the reasonableness of the answers.
	4 M4 Lesson 22: Add two fractions with related units.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of Eureka Math ²
M.4.14.b	4 M4 Lesson 1: Decompose whole numbers into a sum of unit fractions.
Decompose a fraction into a sum of fractions with the same denominator	4 M4 Lesson 2: Decompose fractions into a sum of unit fractions.
in more than one way, recording each	4 M4 Lesson 3: Decompose fractions into a sum of fractions.
decomposition by an equation. Justify	4 M4 Lesson 4: Represent fractions by using various fraction models.
decompositions by using a visual fraction	4 M4 Lesson 5: Rename fractions greater than 1 as mixed numbers.
model (e.g., $\frac{3}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8}; \frac{3}{8} = \frac{1}{8} + \frac{2}{8};$ $2\frac{1}{8} = 1 + 1 + \frac{1}{8}; \text{ or } 2\frac{1}{8} = \frac{8}{8} + \frac{8}{8} + \frac{1}{8}).$	4 M4 Lesson 6: Rename mixed numbers as fractions greater than 1.
$2_8 - 1 + 1 + _8, \text{ or } 2_88 + _8 + _8).$	4 M4 Lesson 7: Rename fractions as a sum of equivalent smaller unit fractions.
	4 M4 Lesson 18: Estimate sums and differences of fractions by using benchmarks.
	4 M4 Lesson 19: Add and subtract fractions with like units.
	4 M4 Lesson 20: Subtract a fraction from a whole number.
	4 M4 Lesson 21: Solve addition and subtraction word problems and estimate the reasonableness of the answers.
	4 M4 Lesson 22: Add two fractions with related units.
M.4.14.c	4 M4 Lesson 23: Add a fraction to a mixed number.
Add and subtract mixed numbers with like	4 M4 Lesson 24: Add a mixed number to a mixed number.
denominators by replacing each mixed	4 M4 Lesson 25: Subtract a fraction from a mixed number, part 1.
number with an equivalent fraction greater than one and/or by using properties of operations and the relationship between addition and subtraction. Identify the two whole numbers a mixed number is between.	4 M4 Lesson 26: Subtract a fraction from a mixed number, part 2.
	4 M4 Lesson 27: Subtract a mixed number from a mixed number.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
M.4.14.d	4 M4 Lesson 18: Estimate sums and differences of fractions by using benchmarks.
Solve word problems involving addition	4 M4 Lesson 20: Subtract a fraction from a whole number.
and subtraction of fractions referring to the same whole and having like denominators	4 M4 Lesson 21: Solve addition and subtraction word problems and estimate the reasonableness of the answers.
by using visual fraction models and equations to represent the problem.	4 M4 Lesson 24: Add a mixed number to a mixed number.
	4 M4 Lesson 27: Subtract a mixed number from a mixed number.
	4 M4 Lesson 28: Represent and solve word problems with mixed numbers by using drawings and equations.
M.4.15	This standard is fully addressed by the lessons aligned to its subsections.
Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.	
Μ.4.15.α	4 M4 Lesson 31: Decompose non-unit fractions into a product of a whole number and
Understand a fraction $\frac{a}{b}$ as a multiple of $\frac{1}{b}$, (e.g., use a visual fraction model to represent $\frac{5}{4}$ as the product $5 \times (\frac{1}{4})$, recording the conclusion by the equation $\frac{1}{4} = 5 \times (\frac{1}{4})$.	a unit fraction.
M.4.15.b	4 M4 Lesson 32: Multiply a fraction by a whole number by using the associative property.
Understand a multiple of $\frac{a}{b}$ as a multiple of $\frac{1}{b}$ and use this understanding to multiply a fraction by a whole number (e.g., use a visual fraction model to express $3 \times \left(\frac{2}{5}\right)$ as $6 \times \left(\frac{1}{5}\right)$, recognizing this product as $\frac{6}{5}$. In general, $n \times \left(\frac{a}{b}\right) = \frac{n \times a}{b}$.	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.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
M.4.15.c	4 M4 Lesson 33: Solve word problems involving multiplication of a fraction by a whole number.
Solve word problems involving multiplication of a fraction by a whole number by using visual fraction models and equations to represent the problem (e.g., If each person at a party will eat $\frac{3}{8}$ of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?).	

West Virginia College- and Career-

Number and Operations-Fractions

Understand decimal notation for fractions and compare decimal fractions.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of Eureka Math ²
M.4.16	4 M5 Lesson 5: Decompose 1 one and express hundredths in fraction form and decimal form.
Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators	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.
10 and 100 (e.g., express $\frac{3}{10}$ as $\frac{3}{100}$, and add	4 M5 Lesson 12: Apply fraction equivalence to add tenths and hundredths.
$\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$).	4 M5 Lesson 13: Apply fraction equivalence to add mixed numbers with tenths and hundredths.
	4 M5 Lesson 14: Solve word problems with tenths and hundredths.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of Eureka Math ²
M.4.17	4 M5 Lesson 1: Organize, count, and represent a collection of money.
Use decimal notation for fractions with denominators 10 or 100 (e.g., rewrite 0.62 as $\frac{62}{100}$; describe a length as 0.62 meters; locate 0.62 on a number line diagram).	 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.
M.4.18 Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, = or <, and justify the conclusions by using a visual model.	 4 M5 Lesson 9: Compare measurements expressed as decimal numbers. 4 M5 Lesson 10: Use pictorial representations to compare decimal numbers. 4 M5 Lesson 11: Compare and order decimal numbers.

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Measurement and Data

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

West Virginia College- and Career-Readiness Standards for Mathematics

M.4.19

Know relative sizes of measurement units within a system of units, including the metric system (km, m, cm; kg, g; l, ml), the customary system (lb., oz.), and time (hr., min., sec.). Within one system of measurement, express measurements in a larger unit in terms of a smaller unit. Express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table (e.g., know that 1 ft is 12 times as long as 1 in; express the length of a 4 ft snake as 48 in; generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...).

Aligned Components of Eureka Math²

4 M1 Lesson 23: Express metric measurements of length in terms of smaller units.4 M1 Lesson 24: Express metric measurements of mass and liquid volume in terms of smaller units.

4 M2 Lesson 17: Express measurements of length in terms of smaller units.

4 M3 Lesson 18: Express units of time in terms of smaller units.

4 M3 Lesson 19: Express customary measurements of weight in terms of smaller units.

4 M3 Lesson 20: Express customary measurements of liquid volume in terms of smaller units.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of Eureka Math ²
M.4.20	4 M2 Lesson 17: Express measurements of length in terms of smaller units.
Use the four operations to solve	4 M2 Lesson 20: Solve word problems involving additive and multiplicative comparisons.
word problems involving distances, intervals of time, liquid volumes, masses	4 M3 Lesson 18: Express units of time in terms of smaller units.
of objects, and money, including problems	4 M3 Lesson 19: Express customary measurements of weight in terms of smaller units.
involving simple fractions or decimals	4 M3 Lesson 20: Express customary measurements of liquid volume in terms of smaller units.
and problems that require expressing measurements given in a larger unit	4 M4 Lesson 18: Estimate sums and differences of fractions by using benchmarks.
in terms of a smaller unit. Represent	4 M4 Lesson 20: Subtract a fraction from a whole number.
measurement quantities using diagrams such as number line diagrams that feature	4 M4 Lesson 21: Solve addition and subtraction word problems and estimate the reasonableness of the answers.
a measurement scale.	4 M4 Lesson 24: Add a mixed number to a mixed number.
	4 M4 Lesson 27: Subtract a mixed number from a mixed number.
	4 M4 Lesson 28: Represent and solve word problems with mixed numbers by using drawings and equations.
	4 M4 Lesson 33: Solve word problems involving multiplication of a fraction by a whole number.
	4 M5 Lesson 14: Solve word problems with tenths and hundredths.
M.4.21	4 M2 Lesson 3: Investigate and use a formula for the area of a rectangle.
Apply the area and perimeter formulas for	4 M2 Lesson 7: Multiply by using an area model and the distributive property.
rectangles in real-world and mathematical problems by viewing the area formula as a multiplication equation with an unknown factor (e.g., find the width of a rectangular room given the area of the flooring and the length).	4 M2 Lesson 18: Investigate and use formulas for the perimeter of a rectangle.
	4 M2 Lesson 19: Apply area and perimeter formulas to solve problems.
	4 M2 Lesson 20: Solve word problems involving additive and multiplicative comparisons.

Measurement and Data

Represent and interpret data.

West Virginia College- and Career-Readiness Standards for Mathematics

Aligned Components of Eureka Math²

M.4.22	4 M4 Lesson 29: Solve problems by using data from a line plot.
Make a line plot to display a data set of measurements in fractions of a unit $\left(\frac{1}{2}, \frac{1}{4}, \frac{1}{8}\right)$. Solve problems involving addition and subtraction of fractions with like denominators by using information presented in line plots (e.g., from a line plot find and interpret the difference in length between the longest and shortest specimens in an insect collection).	4 M4 Lesson 30: Represent data on a line plot.

Measurement and Data

Geometric measurement: understand concepts of angles and measure angles.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
M.4.23	4 M6 Lesson 7: Explore angles as fractional turns through a circle.
Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement:	 4 M6 Lesson 8: Use a circular protractor to recognize a 1° angle as a turn through ¹/₃₆₀ of a circle. 4 M6 Lesson 9: Identify and measure angles as turns and recognize them in various contexts. 4 M6 Lesson 10: Use 180° protractors to measure angles. 4 M6 Lesson 11: Estimate and measure angles with a 180° protractor.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of Eureka Math ²
M.4.23.a An angle is measured with reference to a circle with its center at the common endpoint of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle. An angle that turns through $\frac{1}{360}$ of a circle is called a "one-degree angle," and can be used for measuring angles.	 4 M6 Lesson 7: Explore angles as fractional turns through a circle. 4 M6 Lesson 8: Use a circular protractor to recognize a 1° angle as a turn through ¹/₃₆₀ of a circle. 4 M6 Lesson 9: Identify and measure angles as turns and recognize them in various contexts. 4 M6 Lesson 10: Use 180° protractors to measure angles.
	4 M6 Lesson 10. Use 180° protractors to measure angles with a 180° protractor.
M.4.23.b An angle that turns through <i>b</i> one-degree angles is said to have an angle measure of <i>b</i> degrees.	 4 M6 Lesson 7: Explore angles as fractional turns through a circle. 4 M6 Lesson 8: Use a circular protractor to recognize a 1° angle as a turn through ¹/₃₆₀ of a circle. 4 M6 Lesson 9: Identify and measure angles as turns and recognize them in various contexts. 4 M6 Lesson 10: Use 180° protractors to measure angles. 4 M6 Lesson 11: Estimate and measure angles with a 180° protractor.
M.4.24 Measure angles in whole-number degrees using a protractor and sketch angles of specified measure.	 4 M6 Lesson 8: Use a circular protractor to recognize a 1° angle as a turn through ¹/₃₆₀ of a circle. 4 M6 Lesson 10: Use 180° protractors to measure angles. 4 M6 Lesson 11: Estimate and measure angles with a 180° protractor. 4 M6 Lesson 12: Use a protractor to draw angles up to 180°.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
M.4.25	4 M6 Lesson 13: Decompose angles by using pattern blocks.
Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real-world and mathematical problems (e.g., by using an equation with a symbol for the unknown angle measure).	 4 M6 Lesson 14: Find unknown angle measures within right and straight angles. 4 M6 Lesson 15: Find unknown angle measures within a decomposed angle of up to 180°. 4 M6 Lesson 16: Find unknown angle measures around a point.

Most Virginia Calls 10

Geometry

Draw and identify lines and angles and classify shapes by properties of their lines and angles.

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
M.4.26	4 M6 Lesson 1: Identify and draw points, lines, line segments, rays, and angles.
Draw points, lines, line segments, rays, angles (right, acute, obtuse) and	4 M6 Lesson 2: Identify right, acute, obtuse, and straight angles.
	4 M6 Lesson 3: Draw right, acute, obtuse, and straight angles.
perpendicular and parallel lines. Identify these in two-dimensional figures.	4 M6 Lesson 4: Identify, define, and draw perpendicular lines.
	4 M6 Lesson 5: Identify, define, and draw parallel lines.
	4 M6 Lesson 6: Relate geometric figures to a real-world context.
	4 M6 Lesson 10: Use 180° protractors to measure angles.
	4 M6 Lesson 11: Estimate and measure angles with a 180° protractor.
	4 M6 Lesson 12: Use a protractor to draw angles up to 180° .

West Virginia College- and Career- Readiness Standards for Mathematics	Aligned Components of Eureka Math ²
M.4.26 continued	 4 M6 Lesson 18: Analyze and classify triangles based on side length, angle measures, or both. 4 M6 Lesson 19: Construct and classify triangles based on given attributes. 4 M6 Lesson 20: Sort polygons based on a given rule.
M.4.27	4 M6 Lesson 18: Analyze and classify triangles based on side length, angle measures, or both.
Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines or the presence or absence of angles of a specified size. Recognize right triangles as a category and identify right triangles.	4 M6 Lesson 19: Construct and classify triangles based on given attributes. 4 M6 Lesson 20: Sort polygons based on a given rule.
M.4.28	4 M6 Lesson 17: Recognize, identify, and draw lines of symmetry.
Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.	