
Grade 5 | Nebraska's College and Career Ready Standards for Mathematics (2022) Correlation to *Eureka Math*²[®] (2027)

*Eureka Math*² 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 Math*² 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 Math*² 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 Math*² 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 Math*² 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 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.

Math Confidence

*Eureka Math*² 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.

Nebraska Mathematical Processes	Aligned Components of <i>Eureka Math</i> ²
<p>MP.1 Make sense of problems and persevere in solving them.</p>	<p>Lessons in every module engage students in mathematical processes. These are indicated in margin notes included with every lesson.</p>
<p>MP.2 Reason quantitatively and abstractly and consider the reasoning of others.</p>	<p>Lessons in every module engage students in mathematical processes. These are indicated in margin notes included with every lesson.</p>
<p>MP.3 Create and use representations to organize, record, and communicate mathematical ideas.</p>	<p>Lessons in every module engage students in mathematical processes. These are indicated in margin notes included with every lesson.</p>
<p>MP.4 Analyze mathematical relationships to connect mathematical ideas.</p>	<p>Lessons in every module engage students in mathematical processes. These are indicated in margin notes included with every lesson.</p>
<p>MP.5 Explain and justify mathematical ideas using precise mathematical language in written or oral communication.</p>	<p>Lessons in every module engage students in mathematical processes. These are indicated in margin notes included with every lesson.</p>

Number: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.

5.N.1 Numeric Relationships: Students will understand the place value system.

Nebraska’s College and Career Ready Standards for Mathematics

Aligned Components of *Eureka Math*²

<p>5.N.1.a</p> <p>Read, write, and demonstrate multiple equivalent representations for multi-digit whole numbers and decimals through the thousandths place using standard form and expanded form.</p>	<p>4 M1 Lesson 5: Organize, count, and represent a collection of objects.</p> <p>4 M1 Lesson 7: Write numbers to 1,000,000 in unit form and expanded form by using place value structure.</p> <p>4 M1 Lesson 8: Write numbers to 1,000,000 in standard form and word form.</p> <p>4 M1 Lesson 9: Compare numbers within 1,000,000 by using $>$, $=$, and $<$.</p> <p>4 M1 Lesson 10: Name numbers by using place value understanding.</p> <p>4 M1 Lesson 11: Find 1, 10, and 100 thousand more than and less than a given number.</p> <p>5 M4 Lesson 1: Model and relate decimal place value units to thousandths.</p> <p>5 M4 Lesson 2: Represent thousandths as a place value unit.</p> <p>5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms.</p> <p>5 M4 Lesson 6: Compare decimal numbers to the thousandths place.</p>
<p>5.N.1.b</p> <p>Recognize a digit in one place represents $\frac{1}{10}$ of what it represents in the place to its left.</p>	<p>5 M1 Lesson 1: Relate adjacent place value units by using place value understanding.</p> <p>5 M1 Lesson 2: Multiply and divide by 10, 100, and 1,000 and identify patterns in the products and quotients.</p> <p>5 M4 Lesson 1: Model and relate decimal place value units to thousandths.</p> <p>5 M4 Lesson 2: Represent thousandths as a place value unit.</p> <p>5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms.</p> <p>5 M4 Lesson 4: Relate the values of digits in a decimal number by using place value understanding.</p>

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<p>5.N.1.c Use whole number exponents to denote powers of 10.</p>	<p>5 M1 Lesson 2: Multiply and divide by 10, 100, and 1,000 and identify patterns in the products and quotients.</p> <p>5 M1 Lesson 3: Use exponents to multiply and divide by powers of 10.</p> <p>5 M1 Lesson 4: Estimate products and quotients by using powers of 10 and their multiples.</p> <p>5 M4 Lesson 5: Multiply and divide decimal numbers by powers of 10.</p>
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Number: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.

5.N.2 Fractions and Decimals: Students will extend understanding of fraction and decimal equivalence and ordering.

Nebraska’s College and Career Ready Standards for Mathematics

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<p>5.N.2.a Generate equivalent forms of commonly used fractions and decimals (e.g., halves, fourths, fifths, tenths).</p>	<p>5 M4 Lesson 13: Solve word problems involving addition and subtraction of decimal numbers and fractions.</p>
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<p>5.N.2.b</p> <p>Represent and justify comparisons of whole numbers, fractions, mixed numbers, and decimals through the thousandths place using number lines, reasoning strategies, and/or equivalence.</p>	<p>4 M1 Lesson 5: Organize, count, and represent a collection of objects.</p> <p>4 M1 Lesson 7: Write numbers to 1,000,000 in unit form and expanded form by using place value structure.</p> <p>4 M1 Lesson 8: Write numbers to 1,000,000 in standard form and word form.</p> <p>4 M1 Lesson 9: Compare numbers within 1,000,000 by using $>$, $=$, and $<$.</p> <p>4 M1 Lesson 10: Name numbers by using place value understanding.</p> <p>4 M1 Lesson 11: Find 1, 10, and 100 thousand more than and less than a given number.</p> <p>4 M4 Lesson 13: Compare fractions by using the benchmarks, 0, $\frac{1}{2}$, and 1.</p> <p>4 M4 Lesson 14: Compare fractions with related denominators.</p> <p>4 M4 Lesson 15: Compare fractions with related numerators.</p> <p>4 M4 Lesson 16: Generate a common numerator or denominator to compare fractions.</p> <p>4 M4 Lesson 17: Apply fraction comparison strategies to compare fractions greater than 1.</p> <p>5 M4 Lesson 6: Compare decimal numbers to the thousandths place.</p>
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Number: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.

5.N.3 Operations with Fractions and Decimals: Students will apply and extend previous understandings of whole number operations to add, subtract, multiply and divide fractions and decimals.

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<p>5.N.3.a</p> <p>Interpret a fraction as division of the numerator by the denominator.</p>	<p>5 M2 Lesson 1: Interpret a fraction as division.</p> <p>5 M2 Lesson 2: Interpret a fraction as division by writing remainders as fractions.</p> <p>5 M2 Lesson 3: Represent fractions as division by using models.</p> <p>5 M2 Lesson 4: Solve word problems involving division and fractions.</p>
<p>5.N.3.b</p> <p>Multiply a whole number by a fraction or a fraction by a fraction, including mixed numbers, using visual fraction models and properties of operations.</p>	<p>5 M3 Lesson 1: Find fractions of a set with arrays.</p> <p>5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines.</p> <p>5 M3 Lesson 3: Multiply a whole number by a fraction less than 1.</p> <p>5 M3 Lesson 4: Multiply a whole number by a fraction.</p> <p>5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.</p> <p>5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units.</p> <p>5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially.</p> <p>5 M3 Lesson 8: Multiply fractions less than 1 pictorially.</p> <p>5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems.</p> <p>5 M3 Lesson 10: Multiply fractions greater than 1 by fractions.</p> <p>5 M3 Lesson 11: Multiply fractions.</p> <p>5 M5 Lesson 12: Multiply mixed numbers.</p>

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<p>5.N.3.c</p> <p>Divide a unit fraction by a whole number and a whole number by a unit fraction using visual fraction models and properties of operations.</p>	<p>5 M3 Lesson 12: Divide a nonzero whole number by a unit fraction to find the number of groups.</p> <p>5 M3 Lesson 13: Divide a nonzero whole number by a unit fraction to find the size of the group.</p> <p>5 M3 Lesson 14: Divide a unit fraction by a nonzero whole number.</p> <p>5 M3 Lesson 15: Divide by whole numbers and unit fractions.</p> <p>5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers.</p> <p>5 M3 Lesson 19: Create and solve one-step word problems involving fractions.</p>
<p>5.N.3.d</p> <p>Solve authentic problems involving addition, subtraction, and multiplication of fractions and mixed numbers with like and unlike denominators.</p>	<p>5 M2 Lesson 10: Add whole numbers and mixed numbers and add mixed numbers with related units.</p> <p>5 M2 Lesson 11: Add mixed numbers with unrelated units.</p> <p>5 M2 Lesson 12: Subtract whole numbers from mixed numbers and mixed numbers from whole numbers.</p> <p>5 M2 Lesson 13: Subtract mixed numbers from mixed numbers with related units.</p> <p>5 M2 Lesson 14: Subtract mixed numbers from mixed numbers with unrelated units.</p> <p>5 M2 Lesson 17: Solve problems by equally redistributing a total amount.</p> <p>5 M3 Lesson 17: Solve word problems involving fractions with multiplication and division.</p> <p>5 M3 Lesson 21: Solve multi-step word problems involving fractions.</p> <p>5 M5 Lesson 14: Solve real-world problems involving areas of composite figures with mixed-number side lengths.</p> <p>5 M5 Lesson 15: Solve multi-step word problems involving multiplication of mixed numbers.</p>

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<p>5.N.3.e</p> <p>Add and subtract fractions and mixed numbers with unlike denominators without simplifying.</p>	<p>5 M2 Lesson 5: Add and subtract fractions with related units by using pictorial models.</p> <p>5 M2 Lesson 6: Add and subtract fractions with related units by using area models to rename fractions.</p> <p>5 M2 Lesson 7: Add and subtract fractions with related units by finding equivalent fractions numerically.</p> <p>5 M2 Lesson 8: Add and subtract fractions with unrelated units by finding equivalent fractions pictorially.</p> <p>5 M2 Lesson 9: Add and subtract fractions with unrelated units by finding equivalent fractions numerically.</p> <p>5 M2 Lesson 10: Add whole numbers and mixed numbers and add mixed numbers with related units.</p> <p>5 M2 Lesson 11: Add mixed numbers with unrelated units.</p> <p>5 M2 Lesson 12: Subtract whole numbers from mixed numbers and mixed numbers from whole numbers.</p> <p>5 M2 Lesson 13: Subtract mixed numbers from mixed numbers with related units.</p> <p>5 M2 Lesson 14: Subtract mixed numbers from mixed numbers with unrelated units.</p>
<p>5.N.3.f</p> <p>Solve authentic problems involving division of unit fractions by whole numbers and division of whole numbers by unit fractions.</p>	<p>5 M3 Lesson 12: Divide a nonzero whole number by a unit fraction to find the number of groups.</p> <p>5 M3 Lesson 13: Divide a nonzero whole number by a unit fraction to find the size of the group.</p> <p>5 M3 Lesson 14: Divide a unit fraction by a nonzero whole number.</p> <p>5 M3 Lesson 15: Divide by whole numbers and unit fractions.</p> <p>5 M3 Lesson 17: Solve word problems involving fractions with multiplication and division.</p> <p>5 M3 Lesson 19: Create and solve one-step word problems involving fractions.</p> <p>5 M3 Lesson 20: Solve multi-step word problems involving fractions and write equations with parentheses.</p> <p>5 M3 Lesson 21: Solve multi-step word problems involving fractions.</p>

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<p>5.N.3.g</p> <p>Add and subtract decimals to hundredths using strategies based on place value, properties of operations, and/or algorithms.</p>	<p>5 M4 Lesson 9: Add decimal numbers by using different methods.</p> <p>5 M4 Lesson 10: Add decimal numbers by using place value understanding.</p> <p>5 M4 Lesson 11: Subtract decimal numbers by using different methods.</p> <p>5 M4 Lesson 12: Subtract decimal numbers by using place value understanding.</p> <p>5 M4 Lesson 13: Solve word problems involving addition and subtraction of decimal numbers and fractions.</p>
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Algebra: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.

5.A.1 Operations and Algebraic Thinking: Students will extend understanding of division and apply operational properties to solve problems involving order of operations.

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Aligned Components of *Eureka Math*²

<p>5.A.1.a</p> <p>Multiply multi-digit whole numbers using an algorithm.</p>	<p>5 M1 Lesson 7: Multiply by using familiar methods.</p> <p>5 M1 Lesson 8: Multiply two- and three-digit numbers by two-digit numbers by using the distributive property.</p> <p>5 M1 Lesson 9: Multiply two- and three-digit numbers by two-digit numbers by using the standard algorithm.</p> <p>5 M1 Lesson 10: Multiply three- and four-digit numbers by three-digit numbers by using the standard algorithm.</p> <p>5 M1 Lesson 11: Multiply two multi-digit numbers by using the standard algorithm.</p>
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<p>5.A.1.b</p> <p>Divide four-digit whole numbers by a two-digit divisor, with and without remainders, using strategies based on place value.</p>	<p>5 M1 Lesson 12: Divide two- and three-digit numbers by multiples of 10.</p> <p>5 M1 Lesson 13: Divide two-digit numbers by two-digit numbers in problems that result in one-digit quotients.</p> <p>5 M1 Lesson 14: Divide three-digit numbers by two-digit numbers in problems that result in one-digit quotients.</p> <p>5 M1 Lesson 15: Divide three-digit numbers by two-digit numbers in problems that result in two-digit quotients.</p> <p>5 M1 Lesson 16: Divide four-digit numbers by two-digit numbers.</p>
<p>5.A.1.c</p> <p>Justify the reasonableness of computations involving whole numbers, fractions, and decimals.</p>	<p>5 M1 Lesson 7: Multiply by using familiar methods.</p> <p>5 M1 Lesson 8: Multiply two- and three-digit numbers by two-digit numbers by using the distributive property.</p> <p>5 M1 Lesson 9: Multiply two- and three-digit numbers by two-digit numbers by using the standard algorithm.</p> <p>5 M1 Lesson 10: Multiply three- and four-digit numbers by three-digit numbers by using the standard algorithm.</p> <p>5 M1 Lesson 11: Multiply two multi-digit numbers by using the standard algorithm.</p> <p>5 M1 Lesson 12: Divide two- and three-digit numbers by multiples of 10.</p> <p>5 M1 Lesson 13: Divide two-digit numbers by two-digit numbers in problems that result in one-digit quotients.</p> <p>5 M1 Lesson 14: Divide three-digit numbers by two-digit numbers in problems that result in one-digit quotients.</p> <p>5 M1 Lesson 15: Divide three-digit numbers by two-digit numbers in problems that result in two-digit quotients.</p> <p>5 M1 Lesson 16: Divide four-digit numbers by two-digit numbers.</p> <p>5 M2 Lesson 3: Represent fractions as division by using models.</p> <p>5 M2 Lesson 4: Solve word problems involving division and fractions.</p>

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Aligned Components of *Eureka Math*²

5.A.1.c *continued*

- 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 13: Subtract mixed numbers from mixed numbers with related units.
- 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 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.

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<p>5.A.1.c <i>continued</i></p>	<p>5 M3 Lesson 14: Divide a unit fraction by a nonzero whole number.</p> <p>5 M3 Lesson 15: Divide by whole numbers and unit fractions.</p> <p>5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers.</p> <p>5 M3 Lesson 17: Solve word problems involving fractions with multiplication and division.</p> <p>5 M3 Lesson 19: Create and solve one-step word problems involving fractions.</p> <p>5 M3 Lesson 20: Solve multi-step word problems involving fractions and write equations with parentheses.</p> <p>5 M3 Lesson 21: Solve multi-step word problems involving fractions.</p> <p>5 M4 Lesson 9: Add decimal numbers by using different methods.</p> <p>5 M4 Lesson 10: Add decimal numbers by using place value understanding.</p> <p>5 M4 Lesson 11: Subtract decimal numbers by using different methods.</p> <p>5 M4 Lesson 12: Subtract decimal numbers by using place value understanding.</p> <p>5 M4 Lesson 13: Solve word problems involving addition and subtraction of decimal numbers and fractions.</p> <p>5 M5 Lesson 12: Multiply mixed numbers.</p> <p>5 M5 Lesson 15: Solve multi-step word problems involving multiplication of mixed numbers.</p>
<p>5.A.1.d</p> <p>Simplify authentic numerical or algebraic expressions using order of operations (excluding exponents).</p>	<p><i>Supplemental material is necessary to address this standard.</i></p>

Geometry: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.

5.G.1 Shapes and Their Attributes: Students will classify two-dimensional figures into categories based on their properties.

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Aligned Components of *Eureka Math*²

<p>5.G.1.a Identify and describe faces, edges, and vertices of rectangular prisms.</p>	<p>5 M5 Lesson 16: Identify attributes and properties of right rectangular prisms.</p>
<p>5.G.1.b Recognize volume as an attribute of solid figures that is measured in cubic units.</p>	<p>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.</p>
<p>5.G.1.c Justify the classification of two-dimensional figures in a hierarchy based on their properties.</p>	<p>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.</p>

Geometry: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.

5.G.2 Coordinate Geometry: Graph points on the coordinate plane to solve authentic problems.

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Aligned Components of *Eureka Math*²

<p>5.G.2.a</p> <p>Identify the origin, x-axis, and y-axis of the coordinate plane.</p>	<p>5 M6 Lesson 1: Construct a coordinate system on a line.</p> <p>5 M6 Lesson 2: Construct a coordinate system in a plane.</p> <p>5 M6 Lesson 3: Identify and plot points by using ordered pairs.</p>
<p>5.G.2.b</p> <p>Graph and name points in the first quadrant of the coordinate plane using ordered pairs of whole numbers.</p>	<p>5 M6 Lesson 4: Describe the distance and direction between points in the coordinate plane.</p> <p>5 M6 Lesson 5: Identify properties of horizontal and vertical lines.</p> <p>5 M6 Lesson 6: Use properties of horizontal and vertical lines to solve problems.</p> <p>5 M6 Lesson 7: Generate number patterns to form ordered pairs.</p> <p>5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns.</p> <p>5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns.</p> <p>5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines.</p> <p>5 M6 Lesson 12: Graph and classify quadrilaterals in the coordinate plane.</p> <p>5 M6 Lesson 13: Draw symmetric figures in the coordinate plane.</p> <p>5 M6 Lesson 14: Solve mathematical problems with rectangles in the coordinate plane.</p> <p>5 M6 Lesson 15: Use the coordinate plane to reason about perimeters and areas of rectangles.</p> <p>5 M6 Lesson 16: Interpret graphs that represent real-world situations.</p> <p>5 M6 Lesson 17: Plot data in the coordinate plane and analyze relationships.</p> <p>5 M6 Lesson 18: Interpret line graphs.</p> <p>5 M6 Lesson 20: Reason about patterns in real-world situations.</p>

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<p>5.G.2.c</p> <p>Form ordered pairs from authentic problems involving rules or patterns, graph the ordered pairs in the first quadrant on a coordinate plane, and interpret coordinate values in the context of the situation.</p>	<p>5 M6 Lesson 4: Describe the distance and direction between points in the coordinate plane.</p> <p>5 M6 Lesson 5: Identify properties of horizontal and vertical lines.</p> <p>5 M6 Lesson 6: Use properties of horizontal and vertical lines to solve problems.</p> <p>5 M6 Lesson 7: Generate number patterns to form ordered pairs.</p> <p>5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns.</p> <p>5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns.</p> <p>5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines.</p> <p>5 M6 Lesson 12: Graph and classify quadrilaterals in the coordinate plane.</p> <p>5 M6 Lesson 13: Draw symmetric figures in the coordinate plane.</p> <p>5 M6 Lesson 14: Solve mathematical problems with rectangles in the coordinate plane.</p> <p>5 M6 Lesson 15: Use the coordinate plane to reason about perimeters and areas of rectangles.</p> <p>5 M6 Lesson 16: Interpret graphs that represent real-world situations.</p> <p>5 M6 Lesson 17: Plot data in the coordinate plane and analyze relationships.</p> <p>5 M6 Lesson 18: Interpret line graphs.</p> <p>5 M6 Lesson 20: Reason about patterns in real-world situations.</p>
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Geometry: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.

5.G.3 Measurement: Generate conversions within the customary and metric systems of measurement to solve authentic problems.

Nebraska’s College and Career Ready Standards for Mathematics

Aligned Components of *Eureka Math*²

<p>5.G.3.a</p> <p>Generate conversions in authentic mathematical situations from larger units to smaller units and smaller units to larger units, within the customary and metric systems of measurement.</p>	<p>5 M1 Lesson 5: Convert measurements and describe relationships between metric units.</p> <p>5 M1 Lesson 6: Solve multi-step word problems by using metric measurement conversion.</p> <p>5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.</p> <p>5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units.</p> <p>5 M4 Lesson 26: Solve a real-world problem involving metric measurements.</p> <p>5 M4 Lesson 27: Convert metric measurements involving decimals.</p> <p>5 M4 Lesson 28: Convert customary measurements involving decimals.</p>
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Geometry: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.

5.G.4 Area and Volume: Students will extend area problems for rectangles to include fractions and build meaning for measuring volume.

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<p>5.G.4.a</p> <p>Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the fraction side lengths and show that the area is the same as would be found by multiplying the side lengths.</p>	<p>5 M5 Lesson 8: Find areas of square tiles with fraction side lengths by relating the tile to a unit square.</p> <p>5 M5 Lesson 9: Organize, count, and represent a collection of square tiles.</p> <p>5 M5 Lesson 10: Find the area of a rectangle with fraction side lengths by relating the rectangle to a unit square.</p>
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<p>5.G.4.b</p> <p>Multiply fractional side lengths to find areas of rectangles and represent fraction products as rectangular areas.</p>	<p>5 M5 Lesson 11: Find areas of rectangles with fraction side lengths by using multiplication.</p> <p>5 M5 Lesson 12: Multiply mixed numbers.</p> <p>5 M5 Lesson 13: Solve mathematical problems involving areas of composite figures with mixed-number side lengths.</p> <p>5 M5 Lesson 14: Solve real-world problems involving areas of composite figures with mixed-number side lengths.</p> <p>5 M6 Lesson 15: Use the coordinate plane to reason about perimeters and areas of rectangles.</p>
<p>5.G.4.c</p> <p>Use concrete models to measure the volume of rectangular prisms by counting cubic units.</p>	<p>5 M5 Lesson 17: Find the volume of right rectangular prisms by packing with unit cubes and counting.</p> <p>5 M5 Lesson 18: Find the volume of right rectangular prisms by packing with improvised units.</p> <p>5 M5 Lesson 19: Compose and decompose right rectangular prisms to find their volume by using layers.</p> <p>5 M5 Lesson 21: Relate volumes of solids and liquid volume.</p>
<p>5.G.4.d</p> <p>Find the volume of a rectangular prism with whole-number side lengths by modeling with unit cubes and show that the volume can be additive and is the same as would be found by multiplying the area of the base times height.</p>	<p>5 M5 Lesson 22: Find the volumes of right rectangular prisms by using the area of the base.</p> <p>5 M5 Lesson 23: Find the volumes of right rectangular prisms by multiplying the edge lengths.</p> <p>5 M5 Lesson 24: Solve word problems involving volumes of right rectangular prisms.</p>

Nebraska’s College and Career Ready Standards for Mathematics

Aligned Components of *Eureka Math*²

<p>5.G.4.e</p> <p>Solve authentic problems by applying the formulas $V = l \times w \times h$ and $V = B \times h$ for rectangular prisms to find volumes of rectangular prisms with whole number edge lengths.</p>	<p>5 M5 Lesson 22: Find the volumes of right rectangular prisms by using the area of the base.</p> <p>5 M5 Lesson 23: Find the volumes of right rectangular prisms by multiplying the edge lengths.</p> <p>5 M5 Lesson 25: Find the volumes of solid figures composed of right rectangular prisms.</p> <p>5 M5 Lesson 26: Solve word problems involving perimeter, area, and volume.</p> <p>5 M5 Lesson 27: Apply concepts and formulas of volume to design a sculpture by using right rectangular prisms, part 1.</p> <p>5 M5 Lesson 28: Apply concepts and formulas of volume to design a sculpture by using right rectangular prisms, part 2.</p>
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Data: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.

5.D.2 Analyze Data and Interpret Results: Students will analyze the data and interpret the results.

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<p>5.D.2.a</p> <p>Represent, analyze, and solve authentic problems using information presented in one or more tables or line plots including whole numbers and fractions.</p>	<p>5 M2 Lesson 15: Represent data on a line plot.</p> <p>5 M2 Lesson 16: Solve problems by using data from a line plot.</p> <p>5 M2 Lesson 17: Solve problems by equally redistributing a total amount.</p>
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