








Grade 4 Math

Teacher: Matt Bugee
Updated for 2020

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ: WHAT IS GEOMETRY?</p> <p>UEQ: <i>What is geometry?</i> <i>What are plane shapes (2D)?</i></p> <p>A. Geometry A1. Geometric Components A2. Geometric 2D Shapes</p>	<p>A. Geometry A1. Identify, draw and describe points, intersecting and parallel line segments and lines, rays and right angles.</p> <p>A2. Describe and classify plane figures, including polygons and circles using appropriate geometric terms, including congruent.</p>	<p>A. Geometry T1: I can draw, describe and group these shapes: squares, rectangles, trapezoids, rhombuses, parallelograms, and kites.</p> 	<p>A. Geometry CFA: Unit 1 quiz 1.1-1.4 Unit 1 quiz 1.5 - 1.8</p> <p>CSA: Unit 1 test</p> <p>Standards: 4.3.1.1 4.3.1.2 4.3.2.2</p>	<p>A. Geometry</p> <p>A1. Geometric Components Lessons 1.2- 1.8</p> <p>A2. Geometric 2D Shapes Lessons 1.3 - 1.8</p> <p>Key Vocab: intersecting and parallel lines, right angles, squares, rectangles, trapezoids, rhombuses, parallelograms, kites and polygons.</p> <p>Master fact sheets *Use these to timed test students*</p> <p>Addition Facts  Addition Interventions  Subtraction Facts  Subtraction Interventions  Multiplication Facts  Multiplication Interventions </p> <p>B. Using Numbers and Organizing Data B1. Place Value Lessons 2.3,2.4, 2.7 B2. Equivalent Numbers Lessons 2.2, 2.5, 2.7, 2.9 B3. Operations and Computation Lessons 2.1 - 2.9 B4. Estimation</p>

<p>CEQ:</p> <p>HOW DO WE USE NUMBERS AND ORGANIZE DATA?</p> <p>UEQ:</p> <p><i>How is place value important in our number system?</i></p> <p><i>What are different ways to make the same number?</i></p> <p><i>How are addition and subtraction used to solve problems?</i></p> <p><i>Why do we use estimation?</i></p> <p><i>How do you organize data?</i></p> <p>B. Using Numbers and Organizing Data</p> <p>B1. Place Value</p> <p>B2. Equivalent Numbers</p> <p>B3. Operations and Computation</p> <p>B4. Estimation</p> <p>B5. Data Use</p>	<p>B. Using Numbers and Organizing Data</p> <p>B1. Read and write whole numbers up to the millions.</p> <p>B2. Utilize numerical expressions to give equivalent names for whole numbers.</p> <p>B3. Solve problems involving the addition and subtraction of whole numbers.</p> <p>B4. Make estimates for whole-number addition and subtraction problems.</p> <p>B5. Create a tally chart and bar graph using landmarks.</p>	<p>B. Using Numbers and Organizing Data</p> <p>T1: I can solve multi-digit addition problems.</p> <p>T2: I can solve multi-digit subtraction problems.</p> <p>T3: I can use these types of data sets: bar graphs, tables, timelines, Venn diagrams, pictographs.</p>	<p>B. Using Numbers and Organizing Data</p> <p>CFA: Unit 2 quiz 2.1-2.6 Unit 2 quiz 2.7-2.9</p> <p>CSA: Unit 2 test</p> <p>Standards:</p> <p>4.4.1.1</p> <p>4.1.1.5</p>	<p>Lessons 2.7 - 2.9</p> <p>B5. Data Use</p> <p>Lessons 2.5 -2.8</p> <p>Key Vocabulary: bar graphs, tables, timelines, Venn diagrams, pictographs, tally chart, median, mode, maximum, minimum, range, addition and subtraction key words</p>
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September 2020October

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ:</p> <ul style="list-style-type: none"> ● How do we use numbers and organize data? <p>UEQ:</p> <ul style="list-style-type: none"> ● <i>What are multiples and factors?</i> ● <i>How do you solve addition and subtraction number stories?</i> ● <i>How do you read a bar graph?</i> ● <i>What is the pattern in the What's My Rule table?</i> ● <i>What makes a number sentence true or false?</i> ● <i>How do you solve an open sentence?</i> ● <i>Why do you need parentheses in math?</i> <p>C. Multiplication, Division and Algebra C1. Multiples and Factors</p>	<p>C. Multiplication, Division and Algebra</p> <p>C1. Find multiples and factors. C2. Solve addition and subtraction number stories. C3. Interpret a bar graph. C4. Solve What's My Rule problems. C5. Determine whether a number sentence is true or false. C6. Solve open sentences. C7. Insert parentheses into math problems.</p>	<p>C. Multiplication, Division and Algebra</p> <p>T1: I can solve basic multiplication facts. T2: I can solve basic division facts. T3: I can solve for an unknown number.</p>	<p>C. Multiplication, Division and Algebra</p> <p>CFA: Unit 3 quiz 3.1 - 3.4 Unit 3 quiz 3.5 - 3.9</p> <p>CSA: Unit 3 test</p> <p>Standards: 4.1.1.1 4.1.1.2 4.2.1.1 4,2.2.1 4.2.2.2 4.4.1.1</p>	<p>C. Multiplication, Division and Algebra</p> <p>C1. Find multiples and factors. Lessons 3.2 - 3.6, 3.8, 3.10, 3.11 C2. Solve addition and subtraction number stories. Lessons 3.1, 3.6 - 3.11 C3. Interpret a bar graph. Lessons 3.4, 3.6,3.8, 3.10,3.11 C4. Solve What's My Rule problems. 3.1,3.5,3.7,3.9,3.12 C5. Determine whether a number sentence is true or false. Lessons 3.9, 3.12 C6. Solve open sentences. 3.5, 3.8 -3.11 C7. Insert parentheses into math problems. Lessons 3.10, 3.11</p> <p>Key Vocabulary: factors, multiples, what's my rule table, parentheses, variable</p>

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<p>C2. Number Stories C3. Bar graphs C4. What's My Rules C5. True/False Number Sentences C6. Open Sentences C7. Parentheses</p>				
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November

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ:</p> <ul style="list-style-type: none"> How do you use numbers and organize data? <p>UEQ:</p> <ul style="list-style-type: none"> <i>What are decimals?</i> <i>How do we use decimals?</i> <p>D. Decimals D1. Place Value D2. Multiples and Factors D3. Computation with Decimals</p>	<p>D. Decimals D1. Read, write and identify digits. Express values. Order and compare decimals to the thousandths. D2. Find multiples of numbers less than ten and factors of numbers. D3. Add and subtract decimals to the hundredths place. D4. Measure and draw segments to the nearest 0.5 centimeter. D5. Solve open sentences.</p>	<p>D. Decimals T1: I can read and write decimals to the thousandths. T2: I can compare and order decimals. T3: I can round decimals to the nearest tenth.</p>	<p>D. Decimals CFA: Unit 4 quiz 4.1-4.5 Unit 4 quiz 4.6-4.10 Unit 4 final quiz CSA: Unit 4 test Standards: 4.1.2.4 4.1.2.5 4.1.2.7</p>	<p>D. Decimals D1. Read, write and identify digits. Express values. Order and compare decimals to the thousandths. Lessons 4.1 - 4.8 D2. Find multiples of numbers less than ten and factors of numbers. Lessons 4.5,4.7 D3. Add and subtract decimals to the hundredths place. Lessons 4.5 - 4.10 D4. Measure and draw segments to the nearest 0.5 centimeter.</p>

<p>D4. Measurement D5. Open Number Sentences</p>				<p>Lessons 4.5, 4.8 - 4.10 D5. Solve open sentences. Lessons 4.1, 4.3 - 4.5, 4.7</p> <p>Key Vocabulary: decimals, tenths, hundredths, thousandths, centimeters, millimeters, rounding</p>
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December

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ:</p> <ul style="list-style-type: none"> What is the connection between fractions, decimals and percents? <p>UEQ:</p> <ul style="list-style-type: none"> How do basic facts help up to multiply larger numbers? How do we decide when to estimate an answer for an addition or multiplication problem? 	<p>E. Big Numbers, Estimation and Computation</p> <p>E1. Create and solve extended multiplication facts.</p> <p>E2. Practice multiplication algorithms.</p> <p>E3. Use estimation strategies for addition and multiplication problems.</p> <p>E4. Add and subtract with decimals.</p> <p>E5. Measure line segments to the nearest 0.5 centimeter.</p> <p>E6. Find rules for algebraic functions.</p>	<p>E. Big Numbers, Estimation and Computation</p> <p>T1. I can solve multi-digit multiplication problems.</p> <p>T2. I can use a ballpark estimate to solve addition and multiplication number stories.</p> <p>T3. I can use data to complete input/output tables (What's my rule?).</p> <p>T4: I can multiply by 10s, 100s, and 1000s.</p>	<p>E. Big Numbers, Estimation and Computation</p> <p>CFA: Unit 5 quiz 5.1-5.6 Unit 5 quiz 5.6-5.11</p> <p>CSA: Unit 5 test</p> <p>Standards:</p> <p>4.1.1.2 4.1.1.3 4.1.1.4 4.1.1.5 4.2.1.1</p>	<p>E. Big Numbers, Estimation and Computation</p> <p>E1. Create and solve extended multiplication facts. Lessons 5.1 - 5.7</p> <p>E2. Practice multiplication algorithms. Lessons 5.4 - 5.11</p> <p>E3. Use estimation strategies for addition and multiplication problems. Lessons 5.3 - 5.11</p> <p>E4. Add and subtract with decimals. Lessons 5.2, 5.4, 5.9, 5.11</p> <p>E5. Measure line segments to the nearest 0.5</p>

<p>E. Big Numbers, Estimation and Computation</p> <p>E1. Extended Multiplication Facts</p> <p>E2. Multidigit Number Multiplication</p> <p>E3. Estimation</p> <p>E4. Decimal Computation</p> <p>E5. Measurement</p> <p>E6. Simple Functions</p> <p>E7. Distributive Property of Multiplication</p>	<p>E7. Use parentheses to apply the distributive property of multiplication.</p>			<p>centimeter. Lessons 5.2, 5.4, 5.6, 5.8, 5.10, 5.11</p> <p>E6. Find rules for algebraic functions. Lessons 5.5, 5.7, 5.9, 5.11</p> <p>E7. Use parentheses to apply the distributive property of multiplication. Lessons 5.4 - 5.11</p> <p>Key Vocabulary: ballpark estimate, partial product, lattice, exponent</p>
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January 2014

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ:</p> <ul style="list-style-type: none"> How do you use numbers and organize data? <p>UEQ:</p> <ul style="list-style-type: none"> <i>How do we use diagrams to solve multiplication and division number stories?</i> What do we do with the remainders in a division story? 	<p>F. Division, Reference Frames, Angles</p> <p>F1. Solve multiplication and division number stories and problems.</p> <p>F2. Interpret remainders from division stories.</p> <p>F3. Use place value to round numbers.</p> <p>F4. Use half and full circle protractors to draw and measure angles. Classify angles by their measure.</p> <p>F5. Finding places on a map using ordered number pairs.</p>	<p>F. Division, Reference Frames, Angles</p> <p>T1. I can solve basic division facts.</p> <p>2. I can solve multi-digit division problems.</p> <p>3. I know if an angle is acute, right or obtuse.</p> <p>4. I can measure angles with a protractor.</p> <p>5. I can describe and draw equilateral, right, obtuse, and acute triangles.</p>	<p>F. Division, Reference Frames, Angles</p> <p>CFA: Unit 6 quiz 6.1-6.4 Unit 6 quiz 6.5-6.10 Unit 6 final quiz</p> <p>CSA: Unit 6 test</p> <p>Standards:</p> <p>4.1.1.1 4.1.1.6 4.3.1.1 4.3.2.2 4.3.3.1</p>	<p>F. Division, Reference Frames, Angles</p> <p>F1. Solve multiplication and division number stories and problems. Lessons 6.1-6.7, 6.9, 6.10</p> <p>F2. Interpret remainders from division stories. Lessons 6.1-6.4, 6.6, 6.9, 6.10</p> <p>F3. Use place value to round numbers. Lessons 6.1, 6.3, 6.8, 6.10</p> <p>F4. Use half and full circle protractors to draw and measure angles. Classify</p>

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<ul style="list-style-type: none"> • What is the protractor for and how do we use it? • How do we use ordered number pairs to locate places on a map? <p>F. Division, Reference Frames, Angles</p> <p>F1. Multiplication and Division Diagrams</p> <p>F2. Remainders</p> <p>F3. Rounding Numbers</p> <p>F4. Measuring Angles</p> <p>F5. Ordered Numbered Pairs</p> <p>F6. Parentheses</p>	<p>F6. Insert parentheses to make true number sentences.</p>			<p>angles by their measure. Lessons 6.5 - 6.8, 6.10</p> <p>F5. Finding places on a map using ordered number pairs. Lessons 6.8 - 6.10</p> <p>F6. Insert parentheses to make true number sentences. Lessons 6.1, 6.2, 6.4, 6.5, 6.7</p> <p>Key Vocabulary: acute, right and obtuse angles, equilateral, right, obtuse, and acute triangles. partial-quotients division</p>
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February

Content	Skills	Learning Targets	Assessment	Resources & Technology
<ul style="list-style-type: none"> • CEQ: What is the connection between fractions, decimals and percents? 	<p>G. Fractions</p> <p>G1. Identify the One.</p> <p>G2. Solve equivalent fractions.</p> <p>G3. Compare and order fractions.</p> <p>G4. Solve multidigit</p>	<p>G. Fractions</p> <p>T1. I can make equivalent fractions.</p> <p>T2. I can place fractions on a number line.</p> <p>T3. I can compare and order fractions.</p> <p>T4. I can add and subtract fractions.</p>	<p>G. Fractions</p> <p>CFA: Unit 7 quiz 7.1-7.4 Unit 7 quiz 7.5-7.9 Unit 7 quiz 7.10-7.12</p> <p>CSA: Unit 7 test</p>	<p>G. Fractions</p> <p>G1. Identify the One. Lessons 7.1 - 7.5, 7.7,7.9-7.12</p> <p>G2. Solve equivalent fractions. Lessons 7.6- 7.10, 7.12</p> <p>G3. Compare and order fractions. Lessons 7.8 - 7.10,</p>

<p>UEQ:</p> <ul style="list-style-type: none"> • <i>What are fractions?</i> • <i>How are fractions used?</i> • <i>What are equal fractions?</i> • <i>How do you put fractions in order?</i> • <i>What does probability mean?</i> • <i>How do you figure the chance of an event happening?</i> <p>G. Fractions</p> <p>G1. Fractional Parts G2. Equivalent Fractions G3. Compare/Order Fractions G4. Multiplication/Division G5. Coordinate Grids G6. Probability</p> <p>• CEQ:</p> <p style="padding-left: 40px;">What is perimeter and area?</p> <p>UEQ:</p>	<p>problems. G5. Use ordered numbered pairs. G6. Calculate expected probability.</p> <p>H. Perimeter and Area</p> <p>H1. Practice adding/subtraction fractions with spinners, mental math & calculators. H2. Utilize a spinner to predict outcomes.Using</p>	<p>H. Perimeter and Area</p> <p>T1: I can find the area of a shape by counting square units. T2: I can find the area of a rectangle by multiplying length x width.</p>	<p>Standards:</p> <p>4.1.2.1 4.1.2.2 4.1.2.3</p> <p>H. Perimeter and Area</p> <p>CFA: Unit 8 quiz 8.1-8.4 Unit 8 quiz 8.5-8.9</p>	<p>7.12 G4. Solve multidigit problems. Lessons 7.1-7.4, 7.6, 7.8 - 7.12 G5. Use ordered numbered pairs. Lessons 7.1, 7.3, 7.5, 7.7, 7.9 G6. Calculate expected probability. Lessons 7.3, 7.5 - 7.8, 7.11, 7.12</p> <p>Key Vocabulary: numerator, denominator, equivalent, improper fraction, mixed number, probability,</p> <p>H. Perimeter and Area</p> <p>H1. Practice adding/subtraction fractions with spinners, mental math & calculators. Lessons 8.1,8.3,8.6,8.8 H2. Utilize a spinner to predict outcomes.Using fractions to give the probability of an event.</p>
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<ul style="list-style-type: none"> • <i>What can I use to add and subtract fractions?</i> • <i>How do I guess what will happen in an experiment?</i> • <i>How do I use strategies to measure perimeter of polygons?</i> • <i>What strategies do I use to find the area of polygons?</i> <p>H. Perimeter and Area H1. Add and Subtract Fractions H2. Probability H3. Perimeter H4. Area</p>	fractions to give the probability of an event. H3.Measure perimeters of polygons using different strategies H4.Use strategies to measure & draw areas of polygons on a grid. Solve number stories using area.		<p>CSA: Unit 8 test</p> <p>Standards: 4.1.2.3 4.3.2.3 4.3.2.4</p>	Lessons 8.1-8.8 H3.Measure perimeters of polygons using different strategies Lessons 8.1,8.2,8.4,8.5,8.7 H4.Use strategies to measure & draw areas of polygons on a grid. Solve number stories using area. Lessons Key Vocabulary: perimeter, area, length, width, formula, scale drawing
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March

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ:</p> <ul style="list-style-type: none"> • What is the connection between 	<p>I. Fractions, Decimals, Percents I1. Find a fraction or a percent of a number. I2. Use a calculator to</p>	<p>I. Fractions, Decimals, Percents T1: I can change fractions into decimals. T2: I can change decimals into fractions.</p>	<p>I. Fractions, Decimals, Percents CFA: Unit 9 quiz 9.1-9.5 Unit 9 quiz 9.6-9.10</p>	<p>I. Fractions, Decimals, Percents I1. Find a fraction or a percent of a number. Lessons 9.1-9.9</p>

<p>fractions, decimals and percents?</p> <p>UEQ:</p> <ul style="list-style-type: none"> • <i>How do I find a fraction or a percent of a number?</i> • <i>How do I rename fractions as decimals & percents?</i> • <i>What do I do to find the area and perimeter of a polygon?</i> • <i>How do I use grouping symbols to make number sentences true?</i> <p>I. Fractions, Decimals, Percents Unit 9</p> <p>I1. Fractions and Percentages I2. Renaming I3. Area and Perimeter I4. Number Sentences</p> <p>CEQ: What is geometry?</p> <p>UEQ:</p> <ul style="list-style-type: none"> • <i>What are reflections?</i> 	<p>rename fractions as decimals. Use a calculator to rename fractions as percents.</p> <p>I3. Calculate the area/perimeter of rectangles, parallelograms, & triangles.</p> <p>I4. Insert parentheses to make number sentences true.</p>	<p>J. Fractions and Symmetry</p> <p>T1: I can recognize a translation.</p> <p>T2: I can recognize a reflection.</p> <p>T3: I can recognize a rotation of 90 degrees</p>	<p>Unit 9 final quiz</p> <p>CSA: Unit nine test</p> <p>Standards:</p> <p>4.1.2.2 4.1.2.4 4.1.2.5 4.1.2.6</p>	<p>I2. Use a calculator to rename fractions as decimals. Use a calculator to rename fractions as percents. Lessons 9.1, 9.8-9.9</p> <p>I3. Calculate the area/perimeter of rectangles, parallelograms, & triangles. Lessons 9.2, 9.4, 9.5, 9.6, 9.9</p> <p>I4. Insert parentheses to make number sentences true. Lessons 9.5, 9.7, 9.9</p> <p>Key Vocabulary: percent, discount</p>
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<ul style="list-style-type: none"> • <i>How and when do we use reflections, rotations and translations?</i> • <i>How do we add with negative numbers?</i> • <i>What are integers?</i> <p>J. Fractions and Symmetry J1. Equivalent fractions, decimals and percents. J2. Fractions J3. Symmetry J4. Reflections J5. Translations and Rotations</p>	<p>J. Fractions and Symmetry J1. Name equivalent fractions, decimals and percents. J2. Add and subtract fractions. J3. Locate multiple lines in a 2-dimensional shape. J4. Identify and sketch reflections. J5. Identify examples of translations and rotations.</p>	<p>both clockwise and counterclockwise. T4: I can tell when 2 figures are congruent.</p>	<p>J. Fractions and Symmetry CFA: Unit 10 quiz 10.1-10.3 Unit 10 quiz 10.4-10.6</p> <p>CSA: Unit 10 math test</p> <p>Standards: 4.1.2.3 4.3.3.1 4.3.3.2 4.3.3.3 4.3.3.4</p>	<p>J. Fractions and Symmetry J1. Name equivalent fractions, decimals and percents. Lessons 10.2, 10.5, 10.6 J2. Add and subtract fractions. Lessons 10.2, 10.3, 10.6 J3. Locate multiple lines in a 2-dimensional shape. Lessons 10.2 - 10.4 J4. Identify and sketch reflections. Lessons 10.1 - 10.5 J5. Identify examples of translations and rotations. Lessons 10.1 - 10.5</p> <p>Key Vocabulary: reflections, translations, rotations, clockwise, counterclockwise</p>
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April

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ: What is geometry?</p> <p>UEQ:</p> <ul style="list-style-type: none"> • <i>What are grams and ounces? How do we</i> 	<p>K. Volume K1. Describe events using probability terms. K2. Estimate weight with and without tools. K3. Find and describe the</p>	<p>none</p>	<p>K. Volume CFA: Unit 11 math quiz 11.1-11.3 Unit 11 math quiz 11.4-11.7</p>	<p>K. Volume K1. Describe events using probability terms. Lessons 11.5 - 11.7 K2. Estimate weight with and without tools. Lessons</p>

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<p><i>identify geometric solids?</i></p> <ul style="list-style-type: none"> • <i>What is capacity and volume?</i> • <i>How do we solve subtraction problems with positive and negative numbers?</i> <p>K. Volume K1. Probability K2. Weight K3. Volume K4. Plane and Solid Figures</p>	<p>volume of a rectangular prism. K4. Identify, describe, compare and classify plane and solid figures.</p>		<p>CSA: Unit 11 math test</p> <p>Standards: None</p>	<p>11.1, 11.2, 11.6, 11.7 K3. Find and describe the volume of a rectangular prism. Lessons 11.4, 11.5, 11.7 K4. Identify, describe, compare and classify plane and solid figures. Lessons 11.2 - 11.6</p> <p>Key Vocabulary: volume, prism, plane figure, grams, ounces, capacity</p>
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May

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ: What is rate and how is it used?</p> <p>UEQ</p> <ul style="list-style-type: none"> • <i>How do I compare & order intergers?</i> • <i>How do I use scales to model rate situations?</i> 	<p>L. Rates L1. Find factors and factor pairs. L2. Compare and order integers. L3. Solve rate problems. L4. Calculate volume of rectangular prisms. L5. Find equivalent capacities.</p>	<p>none</p>	<p>L. Rates CFA: Unit 12 quiz 12.1-12.3 Unit 12 quiz 12.4-12.5 Unit 12 quiz 12.6-12.7</p> <p>CSA: Unit 12 math test</p> <p>Standards: None</p>	<p>L. Rates L1. Find factors and factor pairs. Lessons 12.1, 12.3 - 12.5 L2. Compare and order integers. Lessons 12.1, 12.3 L3. Solve rate problems. Lessons 12.2 - 12.6 L4. Calculate volume of rectangular prisms. Lessons 12.1, 12.3, 12.5 L5. Find equivalent capacities. Lessons 12.2, 12.4 - 12.6</p>

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- *How do I convert U.S. customary units of capacity?*
- *How do I solve open sentences?*

L. Rates

L1. Factors

L2. Integers

L3. Rates

L4. Volume

L5. Units of Capacity

Key Vocabulary: integers, rates, rate problems