

Grade 5 Advanced Math (Master)

September 2020

Content	Skills	Learning Targets	Assessment	Resources & Technology	Enrichments
<p>Traditional Multiplication and Division</p> <p>CEQ:</p> <p>* WHAT IS NUMBER THEORY?</p> <p>UEQ:</p> <p>* How are rectangular arrays used with multiplication?</p> <p>* What are factors of a number?</p> <p>* What are prime and composite numbers?</p> <p>* What is the value of a number?</p> <p>A. Rectangular arrays</p> <p>A1. Number models</p> <p>A2. Multiplication facts</p> <p>B. Factors of a Number</p> <p>B1. Factor pairs</p>	<p>Basic Facts of Multiplication and Division used in a traditional manner</p> <p>A. Rectangular Arrays</p> <p>A1. Build arrays</p> <p>A2. Identify factors to describe them.</p> <p>B. Factors Pairs</p> <p>B1. Identify factor pairs</p> <p>B2. Develop a strategy to play Factor Captor.</p> <p>C. Prime and Composite Numbers</p> <p>C1. Define prime and composite numbers.</p> <p>C2. Classify prime and composite numbers.</p> <p>D. Place Value</p> <p>D1. Identify places in whole numbers.</p> <p>D2. Identify places in decimals.</p> <p>D3. Express the values of whole numbers</p>	<p>Number Theory</p> <p>Lesson Learning Targets:</p> <ol style="list-style-type: none"> I can make a rectangular array to show multiplication. I can find the factors of a number. I can identify prime and composite numbers. 	<p>Practice sheets throughout the year</p> <p>A. Rectangular Arrays</p> <p>CSA= Unit One Test</p> <p>CFA=Math Box Quizzes</p> <p>CFA=Five minute weekly fact tests (2 X @ 90%)</p> <p>CFA=Unit 1 Formative Assessments</p> <p>See shared folder.</p>	<p>Traditional Multiplication and Division websites</p> <p>A. Rectangular arrays</p> <p>Lesson 1.2</p> <p>Student Journal</p> <p>Pages 5,8,10,12</p> <p>SRB p 10</p> <p>Study Link 1.2</p> <p>B. Factors of a number</p> <p>Lesson 1.3 and 1.4</p> <p>Student Journal 10,17</p> <p>SRB 10,12, and 306</p> <p>Study Link 1.3, 1.4</p> <p>Math Masters page 453, 454</p> <p>C. Prime and Composite</p> <p>Lesson 1.6</p> <p>Student Journal 16</p> <p>SRB 12</p> <p>Study Link 1.6</p> <p>D. Place Value</p> <p>Lesson 1.1, 1.5</p>	<p>Unit One Enrichments</p> <p>EM Math Masters: 10, 16, 18, 19, 21, 23, 28, 26, 27</p> <p>Games needing EM Math Masters:</p> <ul style="list-style-type: none"> Factor Captor: 453-455 Factor Bingo: 452 Multiplication Top-It: 493 <p>Math Masters Practice Problems ~ 3 daily</p>

<p>C. Prime and Composite Numbers C1. Prime Numbers C2. Composite Numbers</p> <p>D. Place Value D1. Whole Numbers D2. Decimals</p>	<p>D2. Express the value of decimals.</p>			<p>Student Journal 4,15 SRB 4</p>	
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October

Content	Skills	Learning Targets	Assessment	Resources & Technology	Enrichments
<p>CEQ:</p> <p>*What is computation and how are operations performed?</p> <p>UEQ:</p> <p>* What is the value of a number? * How are whole numbers and decimals added and subtracted? * What is estimation? * What is probability? * What are U.S. customary units of length?</p> <p>A. Place Value A1 Whole Numbers A2 Decimals</p>	<p>A. Place Value</p> <p>A1. Identify places in whole numbers. A2. Identify places in decimals.</p> <p>B. Add and Subtract Numbers</p> <p>B1. Solve multi-digit addition problems using partial sums method. B2. Solve multi-digit subtraction problems using trade first method. B3. Solve multi-digit addition problems with decimals. B4. Solve multi-digit subtraction problems with</p>	<p>Computation and Operation</p> <ol style="list-style-type: none"> I can add and subtract whole numbers and decimals. I can make estimates to help solve problems. I can use the U.S. customary units of measurement. I can use language that describes the chance of something happening. <p>LT2. I can multiply 3 digit by 3 digit numbers.</p>	<p>CSA: Unit Two Test</p> <p>CFA=Math Box Quizzes CFA=Five minute weekly fact tests (2 X @ 90%) CFA=Unit 2 Formative Assessment</p>	<p>A. Place Value Lesson 2.2 - 2.6, 2..9 Student Journal 31,36,46,56 SRB 326 Study Link</p> <p>B. Add and Subtract Numbers Lesson 2.2, 2.3 Student Journal 31 - 36, 39, 42, 46, 49, 56 SRB 13, 15, 16, 35 Study Link 2.2, 2.3</p> <p>C. Estimating Lesson 2.7, 2.8, 2.9 Student Journal 45, 47, 50, 51, 54, 55 SRB 323 Study Link 2.7, 2.8, 2.9</p>	<p>Unit Two Enrichments</p> <p>EM Math Masters: 35, 38, 45, 48, 51, 52, 57, 60, 62</p> <p>Math Masters Practice Problems ~ 3 problems daily</p>

<p>B. Add and Subtract Numbers B1. Whole Numbers B2. Decimals</p> <p>C. Estimation C1. Magnitude Estimates C2. Usefulness</p> <p>D. Probability D1. Using words or phrases</p>	<p>decimals.</p> <p>C. Estimating</p> <p>C1. Estimate for whole number multiplication. C2. Estimate decimal number multiplication.</p> <p>D.Probability</p> <p>D1. Express the probability of an event.</p>	<p>LT4. I can estimate to check if my answer makes sense. LT10. I can round numbers to the nearest 0.1, 0.01, 0.001. LT11. I can add and subtract decimals and fractions. LT13. I can estimate sums and differences of decimals and fractions to see if my answer makes sense. LT14. I can solve real-world story problems by using addition and subtraction of fractions, mixed numbers, and decimals.</p>		<p>D. Probability Lesson 2.6, 2.7 Student Journal 43, 44, 48 SRB 128 Study Link 2.6</p>	<p>Unit Three Enrichments</p> <p>EM Math Masters: 70, 71, 74, 76, 82, 85, 88, 89, 91, 93, 96, 97</p> <p>Games needing EM Math Masters:</p> <ul style="list-style-type: none"> Sides and Angles: 502 Angle Tangle: 444 <p>Math Masters Practice Problems ~ 3 daily</p>
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November

Content	Skills	Learning Targets	Assessment	Resources & Technology	Enrichments
<p>CEQ:</p> <p>*What is Geometry?</p> <p>UEQ:</p> <p>* What is the value of a number?</p>	<p>A. Place Value</p> <p>A1. Identify place value to the billions.</p> <p>B. Angle Types</p>	<p>Geometry</p> <ol style="list-style-type: none"> I can identify place value. I can identify different kinds of angles. 	<p>CSA: Unit Three Test</p> <p>CFA=Math Box Quizzes CFA=Five minute weekly fact tests (2 X @ 90%) CFA=Unit 3 Formative Assessment</p>	<p>A. Place Value Lesson 3.2 Math Masters pg. 73</p> <p>B. Types of Angles Lesson 3.3 Student Journal 66, 67</p>	<p>Unit Four Enrichments</p> <p>EM Math Masters: 103, 105, 107, 115</p> <p>Games needing EM Math Masters:</p> <ul style="list-style-type: none"> First to 100: 456-458 Algebra Election: 442, 443, 456, 457

<p>* What are types of angles? * How are angles measured? * How are triangles identified? * What are the properties of polygons?</p> <p>A. Place Value A1 Whole numbers to billions</p> <p>B. Types of Angles B1 Acute B2 Obtuse B3 Right B4 Reflex B5 Straight</p> <p>C. Measuring Angles C1 Acute C2 Obtuse C3 Right C4 Reflex C5 Straight</p> <p>D. Triangle types D1 Isosceles D2 Equilateral D3 Scalene</p> <p>E. Polygons</p>	<p>B1. Identify types of angles.</p> <p>C. Angles</p> <p>C1. Measure an acute angle. C2. Measure an obtuse angle. C3. Measure a right angle. C4. Measure a reflex angle. C5. Measure a straight angle.</p> <p>D. Triangle Types</p> <p>D1. Identify equilateral triangles. D2. Identify isosceles triangles. D3. Identify scalene triangles. D4. Compare properties of triangles.</p> <p>E. Polygons</p> <p>E1. Define regular polygons. E2. Identify properties of sides. E3. Identify properties of angles.</p>	<p>3. I can measure angles. 4. I can identify different triangles. 5. I can identify different properties of polygons.</p> <p>LT6. I can read and write decimals to the thousandths place. LT27. I can measure and find the surface area and volume of a rectangular prism.</p>		<p>Lesson 3.4 Student Journal 68</p> <p>C. Measuring Angles Lesson 3.3 Student Journal 66 Study Link 3.3 Lesson 3.4 Student Journal 68, 69 Study Link 3.4, 3.5 Lesson 3.5 Student Journal 73, 74 Lesson 3.7 Student Journal 81</p> <p>D. Triangle Types Lesson 3.6 Student Journal 75 Study Link 3.6 Lesson 3.7 Student Journal 80 Lesson 3.8 Student Journal 84</p> <p>E. Polygons Lesson 3.7 Student Journal 80 SRB 328 Lesson 3.8 Math masters 89 Lesson 3.1 Student Journal 61</p>	<p>Math Masters Practice Problems ~ 3 problems daily</p> <p>Continental Math League Test #1</p>
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<p>E1 Sides * number * parallel * congruent * regular</p> <p>E2 Angles * types * regular * congruent</p>				<p>Lesson 3.8 Student Journal 82, 83</p> <p>Lesson 3.3 Student Journal 67</p>	
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December

Content	Skills	Learning Targets	Assessment	Resources & Technology	Enrichments
<p>CEQ: What is Division?</p> <p>UEQ: * What are equivalent names for whole numbers? * How are multiplication and division facts related? * What is division using partial quotient algorithm? * How are magnitude estimates made? * How are number sentences written and modeled using number stories?</p> <p>A. Equivalent Names A1 Whole Numbers</p>	<p>A. Equivalent Names A1 Generate friendly numbers.</p> <p>B Fact Application B1 Divide using single digit divisors. B2 Solve division problems using multiplication facts.</p> <p>C Partial Quotient Algorithm C1 Solve division problems using partial quotient.</p>	<p>Division</p> <ol style="list-style-type: none"> I can write other names for whole numbers like $139 = 100 + 30 + 9$. I can explain how multiplication and division is related by naming fact families. I can do partial quotient division. I can make magnitude estimates. I can write a number model from a story problem. 	<p>CSA: Unit Four Test</p> <p>CFA=Math Box Quizzes CFA=Five minute weekly fact tests (2 X @ 90%) CFA=Unit 4 Formative Assessment</p> <p>CSA: Unit Five Test</p> <p>CFA=Math Box Quizzes CFA=Five minute weekly fact tests (2 X @ 90%) CFA=Unit 5 Formative Assessment</p>	<p>A. Equivalent Names Lesson 4.1 - 4.4, 4.6 Student Journal 99, 101, 104, 106, 107, 111, 112, SRB 302, 303, Study Link 4.1, 4.2, 4.4</p> <p>B. Fact Application Lesson 4.1, 4.2, 4.4, Student Journal 99, 101, 106, 107, 109, 111, 112 SRB 303, 308 Study Link 4.1, 4.2, 4.4 - 4.7</p> <p>C. Partial Quotient Algorithm Lesson 4.2, 4.4, 4.5, 4.6, Student Journal 101,</p>	<p>Unit Five Enrichments</p> <p>EM Math Masters: 126, 129, 130, 133, 140, 141, 144, 152</p> <p>Games needing EM Math Masters:</p> <ul style="list-style-type: none"> Fractio Top-It: 462, 463 Factor Captor: 454, 455 Frac-Tac-Toe: 2, 4, 5, 10: 472, 474, 476 Fraction of: 464, 465, 466, 469 <p>Math Masters Practice Problems ~ 3 problems daily</p> <p>Continental Math League Test #2</p>

<p>B. Fact Application B1 Multiplication facts B2 Division facts</p> <p>D Magnitude estimates D1 Decimals D2 Whole numbers</p> <p>E Measurement E1 To the nearest 1/2 inch</p> <p>F Number Stories F1 Write number sentences F2 Solve number sentences</p> <p>CEQ: What are Fractions, Decimals, and Percents?</p> <p>UEQ * What are equivalent fractions? * How are conversions made between fractions and mixed numbers?</p>	<p>D Magnitude Estimates D1 Choose a magnitude estimate * decimals * whole numbers</p> <p>E Measurement E1 Measure to the nearest 1/2 inch.</p> <p>F Number Stories F1 Create a number sentence F2 Solve a number sentence</p> <p>G. Map Scale G1 Convert map distances to real distances</p> <p>A. Fractions A1 Finding equivalent fractions A2 Convert between fractions and mixed numbers. A3 Convert between</p>	<p>LT1. I can divide 4 digit by 2 digit numbers. LT5. I can use the relationship between multiplication and division and the relationship between addition and subtraction to check my answer. LT8. I can order fractions, decimals, and mixed numbers on a number line. LT9. I can rename as decimals, fractions, mixed numbers, and improper fractions.</p>		<p>106, 107, 111, 112 SRB 22, 302, 303 Study Link 4.2, 4.4, 4.5, 4.6</p> <p>D. Magnitude Estimates Lesson 4.5, 4.6, 4.7 Student Journal 109, 112, 115, Study Link 4.5,</p> <p>F. Number Stories Lesson 4.4, 4.6, 4.7 Student Journal 111, 112 Study Link 4.6, 4.7 Math Masters 120</p> <p>A. Fractions Lesson 5.1 - 5.8 Student Journal 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 138, 141, 142, 144, 145, 146, 147, 148, 149, 152, 158, 159, SRB 57, 309 Study Link 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8</p>	
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<p>* How are conversions made between fractions and percents? * How are fractions ordered and compared? * How are fractions added using fraction sticks?</p>	<p>fractions and percents. A4 Order and compare fractions A5 Adding fractions using fraction sticks</p>			<p>Math Masters 146</p>	
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January

Content	Skills	Learning Targets	Assessment	Resources & Technology	Enrichments
<p>CEQ: What is computation and how are operations performed?</p> <p>UEQ: * What are common denominators? * How are fractions with like denominators added? * How are fractions with unlike denominators added? * How are fractions with like denominators subtracted? * How are fractions with unlike denominators subtracted?</p> <p>CEQ: How are data and</p>	<p>A.Common Denominators</p> <p>A1 Finding common denominators A2 Adding fractions A3 Subtracting fractions</p> <p>B Unlike Denominators</p> <p>B1 Adding fractions B2 Subtracting fractions</p> <p>A Data Land Marks</p> <p>A1 Identify data land marks A2 Use data land marks</p> <p>B Sample size</p> <p>B1 Determine how sample</p>	<p>Fractions, Decimals, Percents</p> <ol style="list-style-type: none"> I can find equivalent fractions for fractions like 1/3. I can convert an improper fraction to a mixed number. I can convert a mixed number to an improper fraction. I can convert between fractions and percents. I can compare two fractions like 1/2 and 3/4. 	<p>CSA: Unit Six Test</p> <p>CFA=Math Box Quizzes CFA=Five minute weekly fact tests (2 X @ 90%) CFA=Unit 6 Formative Assessment</p>	<p>A.Common Denominators Lesson 6.8, 6.9, 6.10 Student Journal 191, 194, 196, 197, 200, 201, SRB Study Link 6.8, Math Masters 179,</p> <p>B. Unlike Denominators Lesson 6.8, - 6.10 Student Journal 191, 192, 194, 198, 200, 201, SRB Study Link 6.8, 6.9, 6.10, Math Masters 182</p> <p>A. Data Land Marks Lesson 6.1, 6.3, 6.5 6.6 6.9 Student Journal 158, 167, 175,</p>	<p>Unit 6 Enrichments:</p> <p>EM Math Masters: 160, 166, 169, 176, 177, 179</p> <p>Games needing EM Math Masters:</p> <ul style="list-style-type: none"> Frac-Tac-Toe: 472, 474 Fraction Capture: 460 <p>Math Masters Practice Problems ~ 3 problems daily</p> <p>Continental Math League Test #3</p>

<p>chance used?</p> <ul style="list-style-type: none"> * How are data land marks identified? * How are data land marks used? * How does sample size affect results? <p>A.Common Denominators</p> <ul style="list-style-type: none"> A1 Finding common denominators A2 Adding A3 Subtracting <p>B Unlike Denominators</p> <ul style="list-style-type: none"> B1 Adding B2 Subtracting <p>A Data Land Marks</p> <ul style="list-style-type: none"> A1 Identify A2 Use <p>B Sample size</p> <ul style="list-style-type: none"> B1 Understand how it affects results 	<p>size affects results</p>	<p>6. I can order fractions from least to greatest.</p> <p>7. I can add fractions using fraction sticks.</p> <p>I can find equivalent fractions for fractions like $\frac{1}{3}$.</p> <p>Common Denominators</p> <ol style="list-style-type: none"> 1. I can create fractions with common denominators given two fractions. 2. I can add and subtract fractions with like denominators. 3. I can add and subtract fractions with unlike denominators. <p>LT8. I can order fractions, decimals, and mixed numbers on a number line. LT11. I can add and subtract decimals and fractions.</p>		<p>SRB 119 Study Link 6.1, 6.3, 6.5 Math Masters 163</p> <p>B. Sample Size Lesson 6.5, 6.6 Student Journal 180, 183, 184, 185, SRB 116 Study Link 6.6 Math Masters 169</p>	
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		<p>LT12. I can show how to add and subtract fractions and decimals by drawing a picture.</p> <p>LT15. I can make and use rules, tables, spreadsheets, and graphs to describe patterns and solve problems.</p>			
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February

Content	Skills	Learning Targets	Assessment	Resources & Technology	Enrichments
<p>CEQ: How are numbers and numeration used?</p> <p>UEQ: What is exponential notation? How are positive and negative numbers ordered and compared? How are positive numbers added? How are positive numbers subtracted? How are negative numbers added? How are negative numbers subtracted?</p>	<p>A. Exponential Notation</p> <p>A1. Write numbers in standard and exponential notation</p> <p>B. Positive and negative numbers</p> <p>B1. Compare positive and negative numbers B2. Order positive and negative numbers B3. Add positive and negative numbers B4. Subtract positive and negative numbers</p>	<p>Exponential Notation, Positive and Negative Integers, Number Sentences</p> <ol style="list-style-type: none"> I can define and write numbers using exponential notation. I can compare and order positive and negative numbers. I can add negative numbers. I can subtract negative numbers. 	<p>CSA: Unit Seven Test</p> <p>CFA=Math Box Quizzes CFA=Five minute weekly fact tests (2 X @ 90%) CFA=Unit 7 Formative Assessment</p>	<p>A. Exponential Notation</p> <p>Lesson 7.3 - 7.5, 7.11 Student Journal 209, 210, 212, 214, 216, 217, 222, 215, 246 SRB 5, 7 Study Link 7.1, 7.2, 7.3, 7.11 Math Masters 188</p> <p>B. Positive and Negative Numbers</p> <p>Lesson 7.7, 7.8 - 7.11 Student Journal 229, 230, 232, 233, 237, 238, 239, 240, 242, 244, 245,</p>	<p>Unit Seven Enrichments</p> <p>EM Math Masters: 189, 193, 199, 202, 207, 210,213, 216</p> <p>Games needing EM Math Masters:</p> <ul style="list-style-type: none"> Exponent Ball: 451 First to 100: 456, 457, 458 Name that Number: 490 High-Number Toss: 487 <p>Math Masters Practice Problems ~ 3 problems daily</p> <p>Continental Math League Test #4</p>

<p>A. Exponential Notation A1 Write numbers in standard and exponential notation</p> <p>B. Positive and negative numbers B1 Compare positive and negative numbers B2 Order positive and negative numbers B3 Add positive and negative numbers B4 Subtract positive and negative numbers</p> <p>C. Number Sentences C1 Write sentences that model number stories C2 Use parentheses to solve number sentences C3 Insert parentheses to make number sentences true C4 Use order of operation to solve problems</p>	<p>C. Number Sentences C1. Write sentences that model number stories C2. Use parentheses to solve number sentences C3. Insert parentheses to make number sentences true C4. Use order of operations to solve problems</p>	<p>LT8. I can order fractions, decimals, and mixed numbers on a number line. LT18. I can solve problems using variables and determine whether they are true or false. LT30. I can create a spreadsheet table and graph to display data.</p>		<p>246, SRB 335 Study Link 7.7, 7.8, 7.9, 7.10, 7.11 Math Masters 432</p> <p>C. Number Sentences</p> <p>Lesson 7.1, 7.3 - 7.5, 7.7, 7.9, 7.10 Student Journal 211, 217, 218, 219, 220, 222, 223, 231, 233, 238, 239, 240, 241, 242, 243, 244, 245, 246 SRB 325 Study Link 7.3, 7.4, 7.5, 7.7, 7.9, 7.10, 7.11</p>	<p>Unit Eight Enrichments</p> <p>EM Math Masters: 222, 225, 228, 236, 240, 243, 247, 249</p> <p>Games needing EM Math Masters:</p> <ul style="list-style-type: none"> Mixed Number Spin: 488, 489 Fraction Action, Fraction Fiction: 459 Fraction Spin: 471 Factor Captor: 454, 455 Fraction Capture: 460, 461 <p>Math Masters Practice Problems ~ 3 problems daily</p>
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March

Content	Skills	Learning Targets	Assessment	Resources & Technology	Enrichments
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<p>CEQ: How are numbers and numeration used?</p> <p>UEQ: How are conversions between fractions, decimals, and percents? How are conversion between fractions and mixed numbers made? How are common denominators found? How are fractions ordered and compared? How are algorithms used to add mixed numbers? How are algorithms used to subtract mixed numbers with like denominators?</p> <p>A. Conversions A1 Fractions, decimals, and percents A2. Fraction and mixed or whole numbers</p> <p>B. Denominators B1 Finding common denominators B2 Order and compare fractions</p>	<p>A. Conversions A1. Convert fractions to decimals and percents. A2. Convert fractions to mixed numbers or whole numbers.</p> <p>B. Denominators B1. Identify common denominators B2. Compare and order fractions</p> <p>A Mixed Number A1. Add mixed numbers A2. Subtract mixed numbers with like denominators.</p>	<p>Fractions and Ratios</p> <ol style="list-style-type: none"> I can convert between fractions, decimals, and percents. I can convert between fractions and mixed numbers. I can use a process to add mixed numbers. I can use a process to subtract mixed numbers with like denominators. <p>LT8. I can order fractions, decimals, and mixed numbers on a number line. LT9. I can rename as decimals, fractions, mixed numbers, and improper fractions. LT11. I can add and subtract decimals and fractions.</p>	<p>CSA: Unit Eight Test</p> <p>CFA=Math Box Quizzes CFA=Five minute weekly fact tests (2 X @ 90%) CFA=Unit 8 Formative Assessment</p>	<p>A. Conversions Lesson 8.2 - 8.4, 8.8 - 8.12 Student Journal 248, 251, 254, 272, 273, 274, 277, 278, 279, 281, 282, 283, 287, 289, 290 SRB Study Link 8.1, 8.2, 8.3, 8.8, 8.9, 8.10, 8.11, 8.12 Math Masters 223, 242, 243</p> <p>B. Denominators Lesson 8.1, 8.2, 8.4, 8.10, 8.11, 8.12 Student Journal 248, 249, 251, 252, 253, 254, 283, 289, 290, SRB 300, 399, 401, Study Link 8.1, 8.2, 8.4, 8.11, 8.12 Math Masters</p> <p>A. Mixed Numbers Lesson 8.2, 8.3, 8.4, 8.6, 8.10, 8.12 Student Journal 251, 252, 253, 254, 257, 267, 283, 290, SRB Study Link 8.2,</p>	<p>Unit Nine Enrichments</p> <p>EM Math Masters: 256, 259, 263, 264, 267, 273, 274, 275, 277, 281, 287, 288</p> <p>Games needing EM Math Masters:</p> <ul style="list-style-type: none"> Hidden Treasure: 485, 486 Frac-Tac-Toe: 472-484 Polygon Capture: 494-497 <p>Math Masters Practice Problems ~ 3 problems daily</p> <p>Continental Math League Test #5</p>
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<p>CEQ: What is computation and are operations performed? A. Mixed Number A1 Add mixed numbers A2 Subtract mixed numbers with like denominators</p>				<p>8.3, 8.11, 8.12 Math Masters</p>	
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April

Content	Skills	Learning Targets	Assessment	Resources & Technology	Enrichments
<p>CEQ: What is measurement and geometry? UEQ: What is area? What formula is used to find the area of triangles and parallelograms? How are ordered pairs identified and plotted? What is volume? What formula is used to find the volume of prisms? A. Area A1. Triangles A2. Parallelograms B. Ordered Pairs B1. Identify</p>	<p>A. Area A1. Compute the area of a Triangle A2. Compute the area of a parallelogram B Ordered Pairs B1. Identify ordered pairs on 1 and 4 quad grids. B2. Plot ordered pairs on a 1 and 4 quad grids. C. Volume C1. Compute the volume of a prism A. Base and Height A1. Identify the base and height of triangles. A2. Identify the base and</p>	<p>Geometry and Measurement 1. I can describe the meaning of area. 2. I can use a formula to find the area of triangles and parallelograms. 3. I can plot and identify ordered pairs. 4. I can describe the meaning of volume. 5. I can use a formula to find the volume of a prism. 6. I can identify the base and height of</p>	<p>CSA: Unit Nine Test CFA=Math Box Quizzes CFA=Five minute weekly fact tests (2 X @ 90%) CFA=Unit 9 Formative Assessment CSA: Unit Ten Test CFA=Math Box Quizzes CFA=Five minute weekly fact tests (2 X @ 90%) CFA=Unit 10 Formative Assessment</p>	<p>A. Area Lesson 9.2 - 9.10 Student Journal 304, 305, 308, 309, 310, 312, 313, 314, 330 SRB 188 Study Link 9.4, 9.5, 9.6, 9.10 Math Masters 270, 271, 278 B. Ordered Pairs Lesson 9.1 - 9.3, 9.5, 9.6, 9.7(optional lesson), 9.9, 9.10 Student Journal 292, 293, 294, 296, 297, 298, 300,301, 302, 326, 320 SRB 208, 319, Study Link 9.1, 9.2, 9.3,</p>	<p>Unit Ten Enrichments EM Math Masters: 298, 302, 305, 310, 313, 316, 317 Games needing EM Math Masters: <ul style="list-style-type: none"> Mixed-Number Spin or Fraction Spin: 470, 471, 488, 489 First to 100: 456, 457, 458 Math Masters Practice Problems ~ 3 problems daily</p>

<p>B2. Plot (one and four quad grid)</p> <p>C. Volume C1. Prisms</p> <p>CEQ: What is Geometry?</p> <p>UEQ: How are base and height of triangles and parallelograms identified?</p> <p>A. Base and Height A1. Triangles A2. Parallelograms</p> <p>CEQ: What is data and chance?</p> <p>UEQ: How are mystery line plots and graphs interpreted? How are circumference and area of a circle found? How are algebraic expressions written to represent situations? How are one step pan</p>	<p>height of a parallelogram.</p> <p>A. Mystery line plots and graphs A1. Interpret line plots and graphs</p> <p>B. Circles B1. Calculate circumference B2. Calculate area</p> <p>C. Algebraic Expressions C1. Compose algebraic expressions C2. Solve one step pan balance problems</p>	<p>triangles and parallelograms.</p> <p>Unit 9: LT16. I can graph ordered pairs on a coordinate system. LT24. I can find and label the volume of a three-dimensional figure by counting the total number of cubic units. LT25. I can use a formula to find the volume of a rectangular prism. LT27. I can measure and find the area of a triangle and a quadrilateral.</p> <p>Unit 10: LT15. I can make and use rules, tables, spreadsheets, and graphs to describe patterns and solve problems. LT18. I can solve problems using variables and determine whether they are true or false. LT19. I can create real-world stories with variables using $<$, $>$, and $=$. LT20. I can solve</p>		<p>9.10 Math Masters 264</p> <p>C. Volume Lesson 9.1 - 9.4, 9.8 - 9.10 Student Journal 321, 322, 324, 325, 327, 328, 329, SRB 195 Study Link 9.8, 9.9, Math Masters</p> <p>A. Base and Height Lesson 9.5, 9.6, 9.9, 9.10 Student Journal 309, 310, 312, 313, 314, 324, 325, 327, 328, 329 SRB Study Link 9.5, 9.6, 9.9, 9.10 Math Masters 270, 271</p> <p>A. Mystery line plots and graphs Lesson 10.4, 10.7, Student Journal 339, 346, 347, 348, 350, SRB Study Link 10.4, 10.7 Math Masters</p>	
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<p>balance problems solved?</p> <p>A. Mystery line plots and graphs</p> <p>B. Circle B1. Circumference B2. Area</p> <p>C. Algebraic Expressions C1. Pan balance problems</p>		<p>equations with variables. LT30. I can create and analyze double-bar graphs and line graphs with whole numbers, fractions, and decimals. LT31. I can create a spreadsheet, table, and graph to display data.</p>		<p>B. Circle Lesson 10.8, 10.9 Student Journal 361, 364,365, 366 SRB Study Link 10.8, 10.9, Math Masters</p> <p>C. Algebraic Expressions Lesson 10.1, 10.2, 10.3, 10.5, 10.7 Student Journal 333,334,336, 337, 338, 341,342, 343, 344, 351, 352, 356, 357, 358, 359, SRB Study Link 10.1, 10.2, 10.3, 10.5, 10.7 Math Masters 303,</p>	
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May

Content	Skills	Learning Targets	Assessment	Resources & Technology	Enrichments
<p>CEQ: What is measurement? What is geometry? What is multiplication? What is division?</p> <p>UEQ:</p>	<p>A. Volume A1. Calculate for a prism A2. Calculate for a cylinder</p> <p>B. Area B1. Calculate for a</p>	<p>Measurement and Geometry</p> <p>1. I can identify properties of geometric solids.</p>	<p>CSA: Unit Eleven Test</p> <p>CFA=Math Box Quizzes CFA=Five minute weekly fact tests (2 X @ 90%) CFA=Unit 11 Formative Assessment</p>	<p>A. Volume Lesson 11.3, 11.4, 11.5, 11.6, 11.7 Student Journal 375, 376, 379, 380, 381, 385, 388, 391 SRB</p>	<p>Unit Eleven Enrichments</p> <p>EM Math Masters: 328, 330, 332, 336, 338, 339, 342</p> <p>Games needing EM Math Masters:</p> <ul style="list-style-type: none"> • Rugs and Fences: 498-501 • Name that Number: 490

<p>How are formulas used to find volume? How are formulas used to find area? What are properties of geometric solids? How are multiplication problems solved using the traditional algorithm? How are division problems solved using the traditional algorithm?</p> <p>A. Volume A1. Prisms A2. Cylinders</p> <p>B. Area B1. Polygons B2. Circles</p> <p>C. Properties of geometric solids</p> <p>D. Multiplication D1. Whole numbers D2. Decimals</p> <p>E. Division D1. Whole numbers D2. Decimals</p>	<p>polygon B2. Calculate for a circle</p> <p>C. Properties of geometric solids C1. Identify and compare</p> <p>A. Numbers A1. Find the greatest common factor of two numbers A2. Find the least common multiple of two numbers A3. Find the prime factorization of numbers A4. List factors of numbers</p> <p>B. Ratio and Rate B1. Solve ratio and rate problems</p> <p>D Multiplication D1. Solve up to 2 digit by 3 digit problems D2. Solve up to 2 digit by 3 digit problems with decimal placement</p> <p>E. Division E1. Solve problems up to 2 digit divisors</p>	<p>2. I can use the traditional multiplication process. 3. I can use long division to divide.</p> <p>Unit 11: LT21. I can describe and classify 3-D figures including using edges, faces, and vertices. LT22. I can recognize and draw a net for a 3-D figure. LT23. I can determine the surface area of a rectangular prism. LT24. I can find and label the volume of a 3-D figure by counting the total number of cubic units. LT15. I can use a formula to find the volume of a rectangular prism. LT28. I can measure and find the surface area and volume of a rectangular prism.</p>	<p>CSA: Traditional multiplication test CSA: Traditional division test</p>	<p>Study Link 11.3, 11.7 Math Masters 499,</p> <p>B. Area Lessons 11.3, 11.4, 11.5, 11.6, 11.7 Student Journals 375, 376, 379, 380, 385, 388, 391, SRB Study Link 11.3, 11.4, 11.7, Math Masters 499,</p> <p>C. Properties of geometric solids Lessons 11.1, 11.2 Student Journals 369, 370, 372, 373, SRB Study Link 11.1, 11.2, Math Masters 323, 329, 505, 507</p> <p>A. Numbers Lesson 12.1, 12.5, 12.7, Student Journal 393, 394, 395, 396, 415, 422, SRB Study Link 12.1 Math Masters</p>	<p>Math Masters Practice Problems ~ 3 problems daily</p> <p>Mathematics League Contest</p> <p>Unit Twelve Enrichments</p> <p>EM Math Masters: 349, 355, 362</p> <p>Games needing EM Math Masters:</p> <ul style="list-style-type: none"> ● Factor Captor: 455 ● First to 100: 456, 457, 458 ● Spoon Scramble: 503
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<p>CEQ: What are numbers and numeration? What is computation and how are operations performed?</p> <p>UEQ: What is the greatest common factor of two numbers? What is the least common multiple of two numbers? How are prime factorizations found? How are factors of numbers found? How are ratios and rate problems solved?</p> <p>A. Numbers A1. Greatest common factor A2. Least common multiple A3. Prime factorization A4. Factors</p>	<p>E2. Solve problems up to 2 digit divisors with decimals in the divisor and/or dividend</p> <p>Multiplication of Fractions</p>		<p>Formative</p>	<p>B. Ratio and Rate Lesson 12.2 - 12.8 Student Journal 398, 400, 401, 404, 405, 408, 409, 410, 412, 413, 418, 419, 420, 423, 424, 425, SRB Study Link 12.2, 12.3, 12.4, 12.5, 12.6, 12.8 Math Masters</p> <p>D. Multiplication examples from sixth grade in staff shared grade 5 math</p> <p>E. Division examples from sixth grade in staff shared grade 5 math</p>	
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B. Ratio and Rate				8.5 and 8.6 Student Journal 259 - 267	
Fractions of Fractions					

June

Content	Skills	Learning Targets	Assessment	Resources & Technology	Enrichments
Copy problems from a text book to paper	Copying problems correctly from a text book to paper for computation. Students will need to know how to copy problems from a text book for sixth grade. We are introducing, modeling, and supplying practice for students.	1. I can copy problems from a text book to paper.	Formative assessment to check for understanding and to clarify and help those who are struggling.	Practice sheets from Pearson Education: Reteaching 1.1 - 1.9	