

<u>Enrichment</u> <u>Math Grade 5</u> <u>Mrs. Kathy</u> <u>Pisano</u>	Topic Resources	Skills	Assessment	Common Core Standards Content (Understandings)	Essential Question(s)
August-September	Unit 1: Whole Number Computation and Application	Advanced Skills: I CAN: *Divide multi-digit whole numbers by multi-digit whole numbers by using strategies based on place value, the properties of operations and the relationship between multiplication and division. *Evaluate more complex numerical expressions.	Pre-assessment will be given to determine level of knowledge. Formative, Summative and Self assessments will also determine knowledge of subject area.	*Parentheses, brackets and braces are used to guide the order of operations when simplifying expressions. *A standard algorithm is used to fluently multiply multi-digit whole numbers. *A variety of different strategies can be used to divide multi-digit numbers visual models and strategies based on place value properties of operation and /or the relationship between multiplication and division.	*How do parentheses, brackets and braces affect the way you simplify expressions? *How do you multiply multi-digit numbers using a standard algorithm? *How do you choose different division strategies to divide multi-digit numbers?

<p>October- November</p>	<p>Unit 2: Volume Unit 3: Fractional Computation and Application.</p> <p>Everyday Math Enrichment Component Chapters 9,11,5,6,7</p> <p>Buckle Down Math Lessons 4,25,26,15,16,17,18,19,20.</p> <p>Illustrative Math Lessons</p>	<p>Advanced Skills: I CAN:</p> <p>*Give volume, compute the possible dimensions of a right rectangular prism.</p> <p>*Divide fractions by fractions using visual manipulatives and symbolic representations.</p>	<p>Pre-assessment will be given to determine level of knowledge.</p> <p>Formative, Summative and Self assessments will also determine knowledge of subject area.</p>	<p>Content:</p> <p>*measurement problems can be solved by using appropriate tools.</p> <p>*Volume of three dimensional figures is measured in cubic units.</p> <p>*Volume is additive.</p> <p>*Multiple rectangular prisms can have the same volume.</p> <p>*Volume can be found by repeatedly adding the area of the base or by multiplying all three dimensions.</p> <p>*Volume can be used to solve a variety of real life problems.</p> <p>*Benchmark fractions and other strategies aid in estimating the reasonableness of results of operations</p>	<p>Essential Questions:</p> <p>*How is volume used in real life?</p> <p>*How does the area of rectangles relate to the volume of rectangular prisms?</p> <p>*What is a reasonable estimate for the answer?</p> <p>*How do operations with fractions relate to operations with whole numbers?</p> <p>*What do equivalent fractions represent and why are they</p>
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				<p>with fractions.</p> <p>*The use of area models fraction strips, and number lines are effective strategies to model sums differences, products, and quotients.</p> <p>*Equivalent fractions are critical when adding and subtracting fractions with unlike denominators.</p>	<p>useful when solving equations with fractions?</p>
<p>December-January</p>	<p>Unit 3: Fraction Computation and Application</p> <p>Unit 4 Decimal Computation and Applications</p> <p>Everyday Math Enrichment Component Chapters 8,9,5,6</p> <p>Buckle Down Math Lessons: 21,22,23, 4,8,9,10,11,12,13,14</p> <p>Illustrative Math Lessons</p>	<p>Advanced Skills: I CAN:</p> <p>*Divide fractions by fractions using visual manipulative and symbolic representations.</p> <p>*Add, Subtract, Multiply and Divide using standard algorithms.</p>	<p>Pre-assessment will be given to determine level of knowledge.</p> <p>Formative, Summative and Self assessments will also determine knowledge of subject area.</p>	<p>Content:</p> <p>*Fraction are division models.</p> <p>*Multiplication can be interpreted as scaling/resizing.</p> <p>*Use your knowledge of fractions and equivalence of fractions to develop algorithms for adding, subtracting multiplying and dividing fractions.</p>	<p>Essential Questions:</p> <p>*What models or pictures could aid in understanding a mathematical or real world problems and the relationship among quantities?</p> <p>*What models of pictures can be used when</p>

				<p>*In a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.</p>	<p>solving a mathematical or real world problem to help decide which operations to use?</p> <p>*What effects of multiplying by quantities greater than 1 compared to the effects of multiplying by quantities less than 1?</p> <p>*What occurs when whole numbers and decimals are multiplied or ordered by 10 or powers of 10?</p>
February-March	<p>Unit 4 Decimal Computation and Application</p> <p>Unit 5 Two Dimensional Geometry</p>	<p>Advanced Skills: I CAN:</p> <p>Same as January (Unit</p>	<p>Pre-assessment will be given to determine level of knowledge.</p>	<p>Content:</p> <p>*Multiplying by power of 10 shifts the digits of a whole number or</p>	<p>Essential Questions:</p> <p>*Unit 5; Why is it important to</p>

	<p>Everyday Math Enrichment Component: Chapter 7,10</p> <p>Buckle Down Lessons:21,22,23,27,28,29</p> <p>Illustrative Math Lessons</p>	<p>4)</p> <p>Unit 5: *Draw a polygon in the coordinate plane given coordinates for the vertices.</p> <p>*Use coordinates to find the length of side joining points with the same first coordinate or the same second coordinate.</p>	<p>Formative, Summative and Self assessments will also determine knowledge of subject area.</p>	<p>decimal that many places to the left.</p> <p>*The exponent not only indicates how many places the decimal point is moving but also that you are multiplying or making the number 10 times greater, three times when you multiply by 10 to the third power.</p> <p>Unit 5: Two-dimensional geometric figures are composed of various parts that are described with precise vocabulary.</p> <p>*Two dimensional geometric figures can be classified based upon their properties.</p>	<p>use precise language and mathematical tools in the study of two dimensional and three dimensional figures?</p> <p>*How can describing, classifying and comparing properties of two dimensional shapes be useful in solving problems in our three dimensional world?</p>

<p>April</p>	<p>Unit 6: Coordinate Geometry</p> <p>Everyday Math Enrichment Component Chapters 1,3,12</p> <p>Buckle Down Math Lessons 1,2,3,26</p>	<p>Advanced Skills: I CAN:</p> <p>*Analyze trends from data points represented in the coordinate plane.</p>	<p>Pre-assessment will be given to determine level of knowledge.</p> <p>Formative, Summative and Self assessments will also determine knowledge of subject area.</p>	<p>Content:</p> <p>*In a coordinate plane, the first number indicates how far to travel from origin in the direction of one axis and the second number indicates how far to travel in the direction of the second axis.</p>	<p>Essential question:</p> <p>*What is the purpose of a coordinate plane?</p>
<p>May</p>	<p>Unit 6 : Coordinate Geometry</p>	<p>Same as April</p>	<p>Pre-assessment will be given to determine level of knowledge.</p> <p>Formative, Summative and Self assessments will also determine knowledge of subject area.</p>	<p>Content:</p> <p>*The coordinate plane can be used to compare numerical patterns.</p>	<p>Essential questions:</p> <p>*How can graphing points on the coordinate plane help to solve real world and mathematical patterns?</p>