<table>
<thead>
<tr>
<th>Concepts</th>
<th>Competencies</th>
<th>Grade Level Vocabulary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Place Value</td>
<td>Demonstrate an understanding of rounding as it pertains to whole numbers and decimals</td>
<td>Write and interpret numerical expressions. parentheses, brackets, braces, numerical expressions</td>
</tr>
<tr>
<td>Properties of Operations</td>
<td>Read, write and compare decimals</td>
<td>Analyze patterns and relationships. numerical patterns, rules, ordered pairs, coordinate plane</td>
</tr>
<tr>
<td>Decimals</td>
<td>Use whole numbers and decimals to compute accurately</td>
<td>Understand the place value system. place value, decimal, decimal point, patterns, multiply, divide, decimal point, tenths, thousands, greater than, less than, equal to, &lt;, &gt;, =, compare/comparison, round</td>
</tr>
<tr>
<td></td>
<td>(CC.2.1.5.B.1 &amp; CC.2.1.5.B.2)</td>
<td>Perform operations with multi-digit whole numbers and with decimals to hundredths. multiplication/multiply, division/division, decimal point, tenths, hundredths, products, quotients, dividends, divisor, rectangular arrays, area models, addition/add, subtraction/subtract, (properties)-rules about how numbers work, reasoning</td>
</tr>
<tr>
<td>Fractions</td>
<td>Add, Subtract, Multiply and Divide fractions to solve problems</td>
<td>Use equivalent fractions as a strategy to add and subtract fractions. fraction, equivalent, addition/ add, sum, subtraction/subtract, difference, unlike denominator, numerator, benchmark fraction, estimate, reasonableness, mixed numbers</td>
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<tr>
<td></td>
<td>Explain operations as they pertain to fractions</td>
<td>Apply and extend previous understanding of multiplication and division to multiply and divide fractions. fraction, numerator, denominator, operations, multiplication/multiply, division/divide, mixed numbers, product, quotient, partition, equal parts, equivalent, factor, unit fraction, area, side lengths, fractional sides lengths, scaling, comparing</td>
</tr>
<tr>
<td></td>
<td>(CC.2.1.5.C.1 &amp; CC.2.1.5.C.2)</td>
<td>Convert like measurement units within a given measurement system. conversion/convert, metric and</td>
</tr>
<tr>
<td>Numerical Expressions</td>
<td>Write and interpret numerical expressions</td>
<td></td>
</tr>
<tr>
<td>Order of Operations</td>
<td>Evaluate expressions using the order of operations</td>
<td></td>
</tr>
<tr>
<td>Patterns</td>
<td>Generate, analyze and compare patterns (CC.2.2.5.A.1 &amp; CC.2.2.5.A.4)</td>
<td></td>
</tr>
<tr>
<td>Coordinate Plane</td>
<td>Plot points in quadrant I</td>
<td></td>
</tr>
<tr>
<td>Two-dimensional Figures</td>
<td>Describe and interpret points given an ordered pair</td>
<td></td>
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<tr>
<td></td>
<td>Identify parts of a coordinate grid</td>
<td></td>
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<tr>
<td></td>
<td>Classify two-dimensional figures based on their properties</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(CC.2.3.5.A.1 &amp; CC.2.3.5.A.2)</td>
<td></td>
</tr>
<tr>
<td>Measurement</td>
<td>Solve problems using simple conversions</td>
<td></td>
</tr>
<tr>
<td>Data Displays</td>
<td>Organize and display data in order to answer questions</td>
<td></td>
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<tr>
<td>Volume</td>
<td>Represent and interpret data using</td>
<td></td>
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<tr>
<td>Three-dimensional</td>
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<tr>
<td>Solids</td>
<td>appropriate scale</td>
<td>customary measurement</td>
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<td></td>
<td>Solve problems involving computation with fractions using information obtained from data displays</td>
<td>From previous grades: relative size, liquid volume, mass, length, kilometer (km), meter (m), centimeter (cm), kilogram (kg), gram (g), liter (L), milliliter (mL), inch (in), foot (ft), yard (yd), mile (mi), ounce (oz), pound (lb), cup (c), pint (pt), quart (qt), gallon (gal), hour, minute, second, a.m., p.m., clockwise, counter clockwise</td>
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<tr>
<td></td>
<td>Apply concepts of volume to solve problems</td>
<td>Present and interpret data.</td>
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<tr>
<td></td>
<td>Relate volume to multiplication and to addition</td>
<td>line plot, length, mass, liquid volume</td>
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<tr>
<td></td>
<td>(CC.2.4.5.A.1, CC.2.4.5.A.2, CC.2.4.5.A.4 &amp; CC.2.4.5.A.5)</td>
<td>Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.</td>
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<td>measurement, attribute, volume, solid figure, right rectangular prism, unit, unit cube, gap, overlap, cubic units (cubic cm, cubic in. cubic ft. nonstandard cubic units), multiplication, addition, edge lengths, height, area of base</td>
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<td>Graph points on the coordinate plane to solve real-world and mathematical problems.</td>
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<td>coordinate system, coordinate plane, first quadrant, points, lines, axis/axes, x-axis, y-axis, horizontal, vertical, intersection of lines, origin, ordered pairs, coordinates, x-coordinate, y-coordinate</td>
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<td></td>
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<td>Classify two-dimensional figures into categories based on their properties.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>attribute, category, subcategory, hierarchy, properties (attributes, features), defining characteristics and non-defining characteristic, two dimensional</td>
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<td></td>
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<td>From previous grades: polygon, rhombus/rhombi, rectangle, square, triangle, quadrilateral, pentagon, hexagon, cube, trapezoid, half/quarter circle, circle</td>
</tr>
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