



## Grade 3 Math Overview

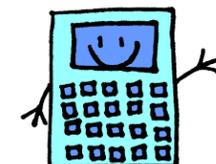


### Operations and Algebraic Thinking

- Represent and solve problems involving multiplication and division.
- Understand properties of multiplication and the relationship between multiplication and division.
- Multiply and divide within 100.
- Solve problems involving the four operations, and identify and explain patterns in arithmetic.

### Number and Operations in Base Ten

- Use place value understanding and properties of operations to perform multi-digit arithmetic.



### Number and Operations Fractions

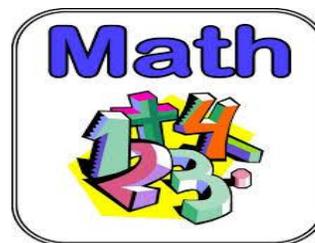
- Develop understanding as fractions as numbers.

### Measurement and Data

- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- Represent and interpret data.
- Geometric measurement: understand concepts of area and relate area to multiplication and addition.
- Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

### Geometry

- Reason with shapes and their attributes.





<p style="text-align: center;"><b><u>First Quarter-</u></b> August 28- October 30</p> <p>Review of place value from the second grade curriculum</p> <p><b><u>NBT.1-</u></b> Use place value to round numbers to the nearest 10 or 100</p> <p><b><u>NBT.2-</u></b> Fluently add or subtract within 1000 with strategies based on place value, properties of operations, and/or the relationship between addition and subtraction</p> <p><b><u>OA.9-</u></b>Identify arithmetic patterns (addition and multiplication) and explain them using properties of operations.</p>	<p style="text-align: center;"><b><u>Second Quarter-</u></b> October 31-January 19</p> <p><b><u>NBT.3-</u></b> Multiply one digit numbers by multiples of 10</p> <p><b><u>OA.1-</u></b> Understand and interpret products of whole numbers (Example <math>5 \times 7 = 5</math> groups of 7)</p> <p><b><u>OA.2-</u></b> Understand and interpret whole number of quotients when objects are partitioned into equal shares</p> <p><b><u>OA.3-</u></b>Use multiplication and division within 100 to solve word problems</p> <p><b><u>OA.4-</u></b> Determine the unknown whole number in a multiplication or division equation relating three whole numbers</p> <p><b><u>OA.5-</u></b> Apply properties of operations as strategies to multiply and divide (commutative property, distributive property, associative property)</p> <p><b><u>OA.6-</u></b> Understand division as an unknown factor problem</p> <p><b><u>OA.7-</u></b> Fluently multiply and divide within 100</p> <p><b><u>OA.8-</u></b> Solve two-step word problems using addition, subtraction, multiplication and division. Represent these problems using a letter to stand for an unknown quantity; assess answers using reasonableness, estimation and rounding</p> <p><b><u>G.2-</u></b> Partition shapes into parts with equal areas (unit fractions)</p> <p><b><u>NF.1-</u></b> Understand fractions as part of a whole, part of a set and partitioning</p> <p><b><u>NF.2-</u></b> Understand a fraction as a number on a number line; represent fractions on a number line</p>
<p style="text-align: center;"><b><u>Third Quarter-</u></b> January 22-March 27</p> <p><b><u>NF.3-</u></b> Understand and explain equivalence of fractions; Compare fractions by reasoning about their size</p> <p><b><u>MD. 1-</u></b> Tell and write time to the nearest minute. Solve word problems using elapsed time using a number line</p> <p><b><u>MD.2-</u></b> Measure and estimate liquid volumes and masses using grams (g), kilograms (kg), and liters (l). Add, subtract, multiply and/or divide to solve word problems using masses or volumes</p> <p><b><u>MD.3-</u></b> Draw and Interpret scaled picture graphs and bar graphs to represent data. Solve one and two step problems based on the graphs</p> <p><b><u>MD.4-</u></b> Measure lengths using halves and quarters of an inch. Interpret and represent data on a line plot</p> <p><b><u>MD.5-</u></b> Understand and find the area of a plane figure</p> <p><b><u>MD.6-</u></b> Measure area by counting unit squares</p> <p><b><u>MD.7-</u></b> Relate area to multiplication and addition</p> <p><b><u>MD.8-</u></b> Solve problems involving perimeters of polygons; relate area to perimeter</p> <p><b><u>G.1-</u></b> Shapes in different categories share attributes Recognize rhombuses, rectangles, and squares as quadrilaterals</p>	<p style="text-align: center;"><b><u>Fourth Quarter-</u></b> March 28-June 8</p> <p>All objectives will be reviewed during the 4<sup>th</sup> quarter.</p>