## Grade 1 Math Overview

**Operations and Algebraic Thinking**
- Represent and solve problems involving addition and subtraction.
- Understand and apply properties of operations relationship between addition and subtraction.
- Add and subtract within 20.
- Work with addition and subtraction equations.

**Number and Operations in Base Ten**
- Extend the counting sequence.
- Understand place value.
- Use place value understanding and properties of operations to add and subtract.
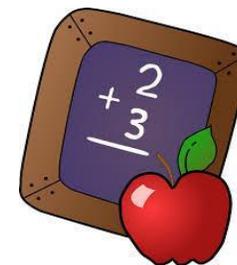
**Measurement and Data**
- Measure lengths indirectly and by iterating length units.
- Tell and write time.
- Represent and interpret data.

**Geometry**
- Reason with shapes and attributes.

## First Grade

| First Quarter- | Second Quarter- |
|---|---|
| **NBT.1**- **Count to 150** starting with any number less than 150. <br> **NBT.2-** Understand that **two-digit numbers** represent the **tens and ones**. Ten is a bundle of ten ones and counting groups of tens and leftovers to determine a two digit number. <br> **NBT.7-** **Read and write numerals** to represent objects to 20. <br> **MD.4-** Organize, represent, and interpret **data** up to three categories; answer questions about bar graphs <br> **OA.1-** **Addition word problems** within 20 *(add to/take from-change unknown; put together/take apart-addend unknown)* <br> **OA.3**- Apply the **commutative and associative properties** for solving addition problems. <br> **OA.6**- **Add within 20**; decomposing, number lines, making 10, counting on, etc. <br> **OA.7-** Understanding the **equal sign** in addition and subtraction equations <br> **OA.9-** Demonstrate **fluency** with addition and subtraction within 10. | **NBT.7-** **Read and write numerals** to represent objects to 100 <br> **NBT.3-** Compare two digit numbers on the value of the tens and ones using < , >, =) <br> **MD.4-** Organize, represent and interpret **data** up to three categories; answer questions about total, how many more, how many less- bar graphs, pictographs and tallies <br> **OA.1-** **Addition and subtraction word problems** within 20 , with unknowns*(add to/take from-change unknown; put together/take apart-addend unknown-compare/difference unknown)* <br> **OA.2-** **Represent and solve word problems** with addition of **three whole numbers** whose sum in less than or equal to 20 (objects, drawings) <br> **OA.7-** Apply understanding of the equal sign in addition and subtraction equations <br> **OA.8-** Determine the **unknown** whole number in addition or subtraction equations involving three whole numbers <br> **MD.1**- **Order 3 objects by length**; compare the length of two objects using the third <br> **MD.2-** **Measure lengths** using non-standard units |
| **Third Quarter-** | **Fourth Quarter-** |
| **NBT.4-** **Add** within 100 (*two digit and one digit numbers/ a two digit number and a multiple of 10*) Strategies include- concrete models, place value, properties. <br> **NBT.5-** Given a 2 digit number, mentally **find 10 more or 10 less** <br> **NBT.6-** **Subtract multiples of 10** up to 100 (concrete models, number lines, place value, properties, relationship between addition and subtraction) <br> **OA.1**- **Subtraction word problems** within 20 *(add to-take from-change unknown/put together-take apart-addend unknown/compare-difference unknown)* <br> **OA.3**- Apply the **commutative and associative properties** for solving addition problems. <br> **OA.7-** Understanding the **equal sign** to determine if equations involving addition and subtraction are true <br> **G.1** – Distinguish between **defining and non-defining attributes** build and draw **shapes (triangles, rectangles, squares, trapezoids, hexagons, circles, cubes, rectangular prisms, cones, spheres, and cylinders)** <br> **G.2-** Create two **dimensional and three dimensional composite shapes** | **MD.3-** Tell and write **time in hours and half hours** using analog and digital clocks <br> **MD.5-** Identify **quarters, dimes, nickels**, and relate their values to **pennies** <br> **G.3-** **Partition circles and rectangles** into two and four equal shares (**halves, fourths,**) <br> **OA.1**- Represent and **solve addition and subtraction word problems** within 20 *(add to-take from-change unknown/put together-take apart-addend unknown/compare-difference unknown)* <br> **OA.2-** Represent and solve **word problems with 3 numbers** whose sum is less than or equal to 20 using objects, drawings and equations with a symbol for the unknown to represent the problem <br> **OA.3**- Apply the **commutative and associative properties** for solving addition problems. <br> **OA.4-** Solve **an unknown addend problem** using addition strategies/subtraction problems (Fact Families) <br> **OA.6-** **Add and subtract within 20;** (counting on, making ten, decomposing, fact families, number line, creating equals) <br> **OA.9-** Demonstrate **fluency with addition and subtraction** within 10 |