NFCSD – Elementary School Math Overview

**Mathematical Practices**

1. Make sense of problems and persevere in solving them.

2. Reason abstractly and quantitatively.

3. Construct viable arguments and critique the reasoning of others.

4. Model with mathematics.

5. Use appropriate tools strategically.

6. Attend to precision.

7. Look for and make use of structure.

8. Look for and express regularity in repeated reasoning.

**Grade 3 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 of 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 to

 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.

**\*Fluency Expectations**

**MULTIPLY AND DIVIDE WITHIN 100** by end of year, know from memory all products of two one-digit numbers.

**ADD AND SUBTRACT WITHIN 1000**

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|  | **REPORT CARD BENCHMARKS** |
| **Quarter 1** | **3.OA.3**-Uses strategies to solve multiplication problems using factors 2-5 and 10.**3.OA.3**-Uses strategies to solve division problems using divisors 2-5 and 10. **3.MD.2**-Uses rounding to the nearest 10 or 100 as a form of estimation to solve one-step word problems involving volume and mass.**3.NBT.2**- Uses place value understanding and properties of operations to perform multi-digit arithmetic.**3.OA.8**-Solve two-step word problems using the four operations. |
| **Quarter 2** | **3.OA.3-**Uses strategies to solve multiplication problems using factors 0-10.**3.OA.3**-Uses strategies to solve division problems using divisors 0-10. **3.OA.9**- Identify and explain patterns using properties of operations.**3.MD.7**-Uses multiplication to find the area of a polygon.**3MD.1**-Tell and write time to the nearest minute and measure time intervals in minutes. |
| **Quarter 3** | **3.NF.1**-Understand the meaning of the numerator, the denominator and unit fractions.**3.NF.1**- Write a fraction to identify the parts of a whole.**3.NF.2**-Understand and represent fractions on a number line.**3.NF.3**-Identify equivalent fractions using a model.**3.NF.3**-Compare fractions using a model. |
| **Quarter 4** | **3.OA.7**- Fluently multiply and divide within 100.**3.MD.8**- Solve real world and mathematical problems involving perimeter.**3.MD.3**-Draw and interpret pictographs and bar graphs.**3.G.1**- Identify the attributes of various polygons**3.OA.8**- Solve two-step word problems using the four operations. |