NFCSD – Elementary School Math Overview

**Grade 4 Overview**

**Operations and Algebraic Thinking**

• Use the four operations with whole numbers to

 solve problems.

• Gain familiarity with factors and multiples.

• Generate and analyze patterns.

**Number and Operations in Base Ten**

• Generalize place value understanding for multi-digit

 whole numbers.

• Use place value understanding and properties of

 operations to perform multi-digit arithmetic.

**Number and Operations—Fractions**

• Extend understanding of fraction equivalence

 and ordering.

• Build fractions from unit fractions by applying

 and extending previous understandings of

 operations on whole numbers.

• Understand decimal notation for fractions, and

 compare decimal fractions.

**Measurement and Data**

• Solve problems involving measurement and

 conversion of measurements from a larger unit to

 a smaller unit.

• Represent and interpret data.

• Geometric measurement: understand concepts of

 angle and measure angles.

**Geometry**

• Draw and identify lines and angles, and classify

 shapes by properties of their lines and angles.

**\*Fluency Expectations**

**ADD AND SUBTRACT WITHIN 1,000,000**

**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.

|  |  |
| --- | --- |
|  | **REPORT CARD BENCHMARKS** |
| **Quarter 1** | **NBT1**-Understand in a number, a digit in one place represents ten times  what it represents in the place to its right. **NBT2**- Compare multi-digit numbers using >, <, and = symbols.**NBT3-** Use place value understanding to round multi-digit whole numbers to any place. **NBT4-** Add and subtract multi-digit whole numbers. |
| **Quarter 2** | **NBT5-** Multiply multi-digit numbers by one-digit numbers using  strategies based on the properties of the operation.**NBT6-** Find whole-number quotients and remainders with up to four-  digit dividends and one-digit divisors, using a variety of strategies.**MD3**- Find area and perimeter of objects using proper formulas.**OA2-** Multiply or divide to solve word problems involving multiplicative  comparison. **OA3-**Generate and analyze patterns |
| **Quarter 3** | **NF1**- Recognize and generate equivalent fractions.**NF3a-** Add and subtract fractions with like denominators.**NF4** - Multiply fractions by whole numbers.**MD6-** Draw and measure angles using a protractor. |
| **Quarter 4** | **NF6-** Use decimal notation for fractions with denominators 10 or 100. **NF7**- Compare and order decimals to hundredths by reasoning about  their size. **MD1-** Know the relative sizes of measurement units with one system of  units including km, m, cm; kg ,g ; lb ,oz; l ,ml ; hr ,min, sec |