5th Grade Core Essentials for Mathematics

Operations and Algebraic Thinking

- ☐ I can use parentheses and brackets in expressions. 5.0A.1
- ☐ I can write expression I hear using mathematic symbols and the order of operations. 5.OA.2
- ☐ I can use numerical rules and patterns to form ordered pairs. Graph the ordered pairs on a coordinate plane. 5.OA.3

Numbers and Operations in Base Ten

- ☐ I can understand and explain the value of digits. 5.NBT.1
- ☐ I can explain patterns when multiplying a number by powers of 10. 5.NBT.2
- ☐ I can explain patterns when a decimal is multiplied or divided by a power of 10. 5.NBT.2
- ☐ I can read, write, and compare decimals to thousandths. 5.NBT.3
- ☐ I can use place value understanding to round decimals to any place. 5.NBT.4
- ☐ I can multiply multi-digit whole numbers. 5.NBT.5
- ☐ I can divide four-digit dividends by two-digit divisors. 5.NBT.6
- ☐ I can illustrate and explain a division problem using equations, arrays, and/or models. 5.NBT.6

- ☐ I can add, subtract, multiply, and divide decimals to hundredths. I can use concrete models or drawings to explain the method used. 5.NBT.7

Number and Operations- Fractions

- ☐ I can add and subtract fractions with unlike denominators and mixed numbers. 5.NF.1
- ☐ I can solve word problems that involve fractions. 5.NF.2
- ☐ I can understand that fractions are really the division of the numerator by the denominator. 5.NF.3
- ☐ I can solve word problems where I divide whole numbers to create an answer that is a mixed number. 5.NF.3
- ☐ I can multiply a fraction or whole number by a fraction. 5.NF.4
- ☐ I can think of multiplication as the scaling of a number (similar to a scale on a map). 5.NF.5
- ☐ I can solve real world problems by multiplying fractions and mixed numbers. 5.NF.6
- ☐ I can divide fractions by whole numbers and whole numbers by fractions. 5.NF.7

Measurement and Data

- ✓ I can convert measurements within the same measuring system. 5.MD.1
- ✓ I can make a line plot to display data sets of measurements in fractions. 5.MD.2
- ✓ I can use fraction operations to solve problems involving information presented on a line plot. 5.MD.2
- ✓ I can understand volume. 5.MD.3
- ✓ I can measure volume by counting unit cubes. 5.MD.4
- ✓ I can solve real world problems involving volume. 5.MD.5
- ✓ I can find the volume of an object using the formulas $V = l * w * h$ and $V = b * h$. 5.MD.5

Geometry

- ✓ I can understand how to graph ordered pairs on a coordinate plane. 5.G.1
- ✓ I can graph and interpret points in the first quadrant of a coordinate plane. 5.G.2
- ✓ I can classify shapes into categories. 5.G.3
- ✓ I can classify shapes based on properties. 5.G.4