

## **RINGWOOD PUBLIC SCHOOLS**

### **WHAT EVERY STUDENT SHOULD KNOW BY THE END OF THIRD GRADE – MATH**

#### Number Sense, Numeration, and Numerical Operations

- Use place value to read, write, and describe the value of whole numbers through hundred thousands.
- Use expanded notation to the hundreds place.
- Compare and order whole numbers.
- Use fraction names to describe fractional parts of whole objects (denominators 2 – 8).
- Compare and order fractions with like denominators.
- Add and subtract to solve problems involving whole numbers up to the thousands place.
- Use the identity and commutative properties for addition and multiplication.
- Recall and use multiplication facts up to twelve.
- Demonstrate an understanding of division and its relationship to multiplication.
- Identify the operation(s) necessary to solve a word problem (addition, subtraction, multiplication).

#### Spatial Sense, Measurement, and Geometry

- Identify the appropriate unit of measurement (length, weight, and capacity).
- Estimate and measure length to the nearest  $\frac{1}{2}$  inch, weight to the nearest pound, and capacity.
- Compare units within the customary system.
- Determine the value of sets of coins and make change up to a dollar.
- Use digital and analog clocks to tell time to the nearest five minutes.
- Use a thermometer to measure temperature (Fahrenheit).
- Name, describe, and draw a square, rectangle, triangle, circle and their solid equivalents.
- Identify congruent shapes.

#### Patterns, Relationships, and Functions

- Recognize numerical patterns.
- Extend and create numerical patterns.

#### Data, Probability, and Statistics

- Gather, organize, interpret and display data using charts and graphs (bar, picture, line).
- Use ordered pairs to locate points and plot positions on a coordinate grid.
- Use timelines to display sequences of events.