

# NORTH BRANFORD PUBLIC SCHOOLS

## Essential Curriculum

### Mathematics

#### *Kindergarten*

The K-5 math curriculum includes number sense, operations, estimation, ratio, proportion, percent, measurement, spatial relationships, geometry, probability, statistics, patterns, algebra, functions and discrete mathematics. Students develop understanding of these concepts through inquiry, exploration, observation, prediction, analysis, problem solving, communicating ideas and making connections between concepts and to the real world.

Upon completion of Kindergarten, children will be able to:

- Count up to 100 and group by tens.
- Explore fraction concepts at a concrete level.
- Identify, write and order numerals to 10 and match them to sets of objects.
- Order, compare, combine, and separate sets.
- Use numbers and objects to count, locate, compare, measure and label.
- Estimate and verify the number of objects.
- Compare and estimate quantity, distance, weight, length and more/less concepts.
- Describe objects and sets using qualitative comparisons.
- Measure and estimate weight, volume, height, distance and temperature.
- Describe size relationships and the position, location, and direction of objects.
- Sequence time events.
- Solve everyday problems.
- Name, duplicate, and create shapes and solids.
- Describe data shown on a graph.
- Create, duplicate, recognize, describe, compare and extend patterns.
- Describe attributes of objects.
- Represent and classify data.
- Organize information through counting, listing and reasoning.