

## Mathematics: Pre-Kindergarten

### Number and Operations

- Understands numbers and number systems
- Understands meanings and relationships of operations
- Computes fluently and makes estimates

### Algebra

- Understands patterns, relations, and functions
- Analyzes mathematical situations and structures
- Uses models to understand relationships

### Geometry

- Analyzes two- and three- dimensional geometric shapes
- Describes spatial relationships using geometry
- Uses geometric modeling to solve problems

### Measurement

- Understands attributes/processes of measurement
- Applies appropriate techniques to determine measurements

### Data Analysis and Probability

- Collects, organizes, and displays relevant data
- Evaluates inferences and predictions based on data
- Applies basic concepts of probability

The process strands, **problem solving, reasoning and proof, communications, connections, and representation**, are interwoven and interdependent with the content strands.

#### Essential to Know:

- Uses numbers to represent quantity
- Sorts objects by an attribute
- Names and describes two-dimensional shapes
- Identifies measurable attributes and uses them to make comparisons among objects, events, etc.
- Recognizes data by sorting objects according to one attribute