

Mathematics: Grade 1

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 measurement attributes/processes
- Applies appropriate measurement techniques

Data Analysis and Probability

- Collects, organizes, and displays relevant data
- Evaluates inferences/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:

- Understands concept of place value
- Decomposes/composes whole numbers
- Understands meaning of addition/subtraction w/whole numbers
- Recognizes/extends/creates patterns
- Knows attributes/parts of two-/three-dimensional shapes
- Uses standard units of measurement
- Collects and analyzes data