

# MATHEMATICS

## Essential Learning: MATHEMATICS

### STANDARDS FOR MATHEMATICAL PRACTICE

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The Standards for Mathematical Practice describe the ways students interact with math concepts. These standards represent the behaviors, skills and habits your child will develop as they engage and progress in their mathematics learning.

Students will:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

### KINDERGARTEN STANDARDS FOR MATHEMATICS

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These are the critical skills your child will be learning in kindergarten. These skills lay the foundation for future success in mathematics.

#### Counting and Cardinality

- Know number names and the counting sequence (1, 2, 3,...).
- Count to tell the number of objects.
- Identify and compare quantities.

#### Operations and Algebraic Thinking

Understand addition as putting together and adding to, and understand subtraction as taking from.

#### Numbers and Operations in Base Ten

Compose and decompose (build and break apart) numbers 11 through 19 to gain foundations for place value (for example,  $18 = 10 + 8$ ).

#### Measurement and Data

Describe and compare measurable attributes (characteristics) of objects and classify objects and count the number of objects in each category (for example, longer/shorter).

#### Geometry

- Identify and describe shapes, including squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders and spheres.
- Analyze, compare and build shapes.