

## Early Childhood Math Standards and Benchmarks

### **Standard 2: Understand and apply basic and advanced properties of the concepts of numbers**

#### **Benchmarks:**

- 2.1 Understands that numbers represent the quantity of objects
- 2.2 Counts by ones to ten or higher
- 2.3 Counts objects
- 2.4 Understands one-to-one correspondence
- 2.5 Understands the concept of position in a sequence (e.g., first, last)
- 2.6 Knows the written numerals zero through nine
- 2.7 Knows the common language for comparing quantity of objects (e.g., "more than," "less than," "same as")
- 2.8 Understands that a whole object can be separated into parts
- 2.9 Knows that numbers are used in real-world situations

### **Standard 3: Use basic and advanced procedures while performing the process of computation**

#### **Benchmarks:**

- 3.1 Knows that the quantity of objects can change by adding or subtracting [sic: taking away] objects

### **Standard 4: Understand and apply basic and advanced properties of the concepts of measurement**

#### **Benchmarks:**

- 4.1 Understands basic concepts of time (e.g., today, tomorrow, morning, evening) and the sequence of various events (e.g., what comes after lunch)

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- 4.2 Measures objects with non-standard tools (e.g., string, hands, footsteps, unifix cubes, tiles)
- 4.3 Estimates quantities in real-world situations
- 4.4 Orders objects qualitatively by measurable attribute (e.g., smallest to largest, lightest to heaviest, shortest to longest)
- 4.5 Knows the common language of measurement (e.g., "big," "little," "long," "short," "light," "heavy")
- 4.6 Knows that different sized containers will hold more or less

### **Standard 5: Understand and apply basic and advanced properties of the concepts of geometry**

#### **Benchmarks:**

- 5.1 Knows basic geometric language for naming shapes (e.g., circle, triangle, square, rectangle)
- 5.2 Understands the common language used to describe position and location (e.g., "up," "down," "below," "above," "beside," "inside," "outside")
- 5.3 Knows that geometric shapes can be put together or taken apart to form other shapes
- 5.4 Understands that a shape's orientation in space can change
- 5.5 Sorts and groups objects by attributes (e.g., shape, size, color)

### **Standard 6: Understand and apply basic and advanced concepts of statistics and data analysis**

#### **Benchmarks:**

- 6.1 Knows that concrete and pictorial graphs represent information

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- 6.2 Collects data from everyday (real-world) situations (e.g., favorite color, number of pets)

### **Standard 8: Understand and apply basic and advanced properties of functions and algebra**

#### **Benchmarks:**

- 8.1 Understands simple patterns (e.g., boy-girl-boy-girl)
- 8.2 Repeats simple patterns