

# Math

PRE KINDERGARTEN (AGE 3)

## STANDARD 1

*The student understands and applies the concepts and procedures of number sense and operations*

**To meet this standard, the student will:**

**Benchmark PK3.1.1: Understand and represent whole numbers**

**Indicators:**

- PK3.1.1.1 Count objects 0-12
- PK3.1.1.2 Identify numbers 0-12
- PK3.1.1.3 Rote count 0-20
- PK3.1.1.4 Demonstrate 1-1 correspondence to 10

**Benchmark PK3.1.2: Explore the concept of parts of a whole (puzzles)**

**Benchmark PK3.1.3: Understand the significance of numbers within the surrounding environment**

**Indicators:**

- PK3.1.3.1 Use mathematical language to identify and describe numbers in real life situations
- PK3.1.3.2 Discuss the use of numbers and arrangements in real life situations (e.g. there are 10 students in this class, 4 boys and 6 girls)
- PK3.1.3.3 Recognize numbers used in the Bible

*Key: 1 Grade 1.1 Standard 1.1.1 Benchmark 1.1.1.1 Indicator*

*SCS Curriculum, Math, Pre-Kindergarten (age 3), approved Jan. 15, 200, revised May, 2009*

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## STANDARD 2

*The student understands and applies concepts and procedures of patterns and algebra*

To meet this standard, the student will:

**Benchmark PK3.2.1: Identify, extend, and create number, geometric and other patterns**

**Indicators:**

- PK3.2.1.1 Observe and create/complete patterns
- PK3.2.1.2 Recognizes simple patterns
- PK3.2.1.3 Duplicates and/or creates patterns with 2 attributes

**Benchmark PK3.2.2: Explore patterns and pattern rules**

**Indicator:**

- PK3.2.2.1 Recognize patterns in the environment (God's world)

**Benchmark 3.2.3: Identify relationships between patterns**

**Indicator:**

- PK3.3.2.3.1 Compare patterns using objects, pictures, actions, numbers and spoken words

Key: 1. Grade 1.1 Standard 1.1.1 Benchmark 1.1.1.1 Indicator

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## STANDARD 3

*The student understands and applies the concepts and procedures of geometry*

To meet this standard, the student will:

**Benchmark PK3.3.1:** Identify, describe, compare and classify polygons using concrete materials and drawings

**Indicator:**

- PK3.3.1.1 Recognize geometric shapes and their names (circle, square, triangle, heart, star, kite, rectangle, oval)
- PK3.3.1.2 Sort and classify into groups according to shapes, color, and/or size
- PK3.3.1.3 Order several objects on the basis of one attribute
- PK3.3.1.4 Sort objects into subgroups that vary by one or two attributes
- PK3.3.1.5 Explore the use of terms used to describe geometric attributes

**Benchmark PK3.3.2:** Investigate the attributes and build three-dimensional objects

**Indicator:**

- PK3.3.2.1 Explore the concept of spatial relationships

Key: 1 Grade 1.1 Standard 1.1.1 Benchmark 1.1.1.1 Indicator

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## STANDARD 4

*The student understands and applies the concepts and procedures of measurement*

To meet this standard, the student will:

**Benchmark PK3.4.1: Demonstrate an understanding of and ability to apply measurement term: time (calendar, days) and size.**

**Indicators:**

- PK3.4.1.1 Explore calendar
- PK3.4.1.2 Begin to develop a sense of time (day and night)
- PK3.4.1.3 Begin to understand the sequence of days of the week

**Benchmark PK3.4.2: Identify relationship between and among measurement concepts**

**Indicators:**

- PK3.4.2.1 Compare objects by size (big, small, more, less, same)
- PK3.4.2.2 Understand and use comparative words

Key: 1 Grade 1.1 Standard 1.1.1 Benchmark 1.1.1.1 Indicator

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## STANDARD 5

The student *understands and applies the concepts and procedures of data analysis and probability*

To meet this standard, the student will:

**Benchmark PK3.5.1: Collect, organize, and describe data using concrete materials and drawings**

**Indicators:**

- PK3.5.1.1 Make and interpret graphs using objects and pictures
- PK3.5.1.2 Compare data using terms such as more/less, big/small
- PK3.5.1.3 Begin to understand graphs with the concept of positional words: up, down, top, under, next to
- PK3.5.1.4 Express mathematical ideas orally and through graphing

**Benchmark PK3.5.2: Demonstrate an understanding of probability**

**Indicator:**

- PK3.5.2.1 Explore concepts of likely and unlikely

Key: 1 Grade 1.1 Standard 1.1.1 Benchmark 1.1.1.1 Indicator

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