

## KINDERGARTEN

### **STANDARD1: SCIENCE AS INQUIRY**

**The student will experience as *full inquiry*. In the elementary grades, students begin to develop the physical and intellectual abilities of scientific inquiry.**

Benchmark 1: The student will be involved in activities that develop skills necessary to conduct scientific inquiries.

- 1:1:3 uses appropriate materials, *tools*, and safety procedures to collect information (uses appropriate precautions, procedures, and safety equipment when doing investigation.)
- 1:1:4 asks and answers questions about objects, organisms, and events in his/her own environment.  
(observes and asks questions about a variety of objects and discusses how they are alike and different.)

### **STANDARD 2: PHYSICAL SCIENCE**

**The student will explore the world by observing and manipulating common objects and materials in their environment.**

Benchmark 1: The student will develop skills to describe objects.

- 2:1:1 observes properties of objects and measures or describes those properties using age-appropriate tools and materials.  
(measures and compares size, shape and color.)
- 2:1:2 separates or sorts a group of objects or materials by properties.  
(compares and sorts size, shape, and color.)
- 2:1:3 compares the properties of solids and liquids.  
(describe the *properties* of liquid water and frozen water or liquid (melted) chocolate chips and solid chocolate chips.)

### **STANDARD 3: LIFE SCIENCE**

**The student will begin to develop an understanding of biological concepts.**

Benchmark 1: The student will develop and understanding of the characteristics of living things.

- 3:1:1 discusses that *organisms* live only in *environments* in which their needs can be met.  
(learns that children need air, water, food, shelter, and care.)

- 3:1:2 observes *life cycles* of different living things.  
(observes the *life cycles* of humans.)
- 3:1:4 examines the *structures*/parts of living things.  
(observes that people have a head, a body, skin and hair.)

#### **STANDARD 4: EARTH AND SPACE SCIENCE**

**The student will observe closely the objects and materials in their environment.**

Benchmark 2: The student will observe and compare objects in the sky.

- 4:2:2 describes that the sun provides light and warmth.  
(feels heat from the sun on the face and skin.)

Benchmark 3: The student will describe changes in weather.

- 4:3:1 observes changes in the weather from day to day.  
(draws pictures or uses symbols to record weather observations.)
- 4:3:3 discusses weather safety procedures.  
(practices tornado drill procedures)

#### **STANDARD 6: SCIENCE IN PERSONAL AND ENVIRONMENTAL PERSPECTIVES**

**The student will have a variety of experiences that provide understanding for various science-related personal and environmental changes.**

Benchmark 1: The student will demonstrate responsibility for their own health.

- 6:1:1 engages in personal care.  
(practices washing hands, brushing teeth, and engaging in exercise; discusses appropriate types of clothing to wear; discusses personal hygiene.)
- 6:1:3 discuss that humans need to practice being safe.  
(discusses the need to obey traffic signals, use crosswalks, and the danger of talking to strangers.)

**STANDARD 7: HISTORY AND NATURE OF SCIENCE**

**The student will experience scientific inquiry and learn about people from history.**

Benchmark 1: The student will know they practice science.

7:1:1 is involved in explorations that make his/her mind wonder and know that he/she is practicing science.  
(observe and/or report what happens when you rub your hands together very fast.)