

# SCIENCE CURRICULUM

## KINDERGARTEN

*THEME: EXPLORING MY WORLD*

### Goal

A science program should begin with the lesson that the world is an amazing place, worthy of intense exploration. Students in kindergarten should be given as many opportunities as possible to experience and manipulate common objects and materials in their environment.

At this developmental stage, students can practice basic science skills by observing, describing, and collecting objects. Students can interpret their observations through the five senses. The class setting should provide a stimulating atmosphere.

### Science Processes and Inquiry

- 1. The student will engage in investigations that lead to the discovery of science concepts.**
  - a. Observe common objects using the five senses.
  - b. Describe the properties of common objects.
  - c. Compare and sort common objects based on one physical attribute (including color, shape, texture, size, weight).
  - d. Communicate observations orally and in drawings.
  - e. Practice safety procedures in all science activities.

### Physical Science

- 1. Matter – The student will observe and describe the properties of materials.**
  - a. Describe how objects look, feel, smell, taste, and sound using all of the senses.
  - b. Describe objects in terms of the materials they are made of (e.g. clay, metal, cloth, paper, etc.), their physical properties (e.g. color, size, shape, weight, texture, flexibility), and how they are used.
  - c. Study water in solid and liquid form.

## Life Science

### 1. Plants/Animals – The student will determine that different types of plants and animals inhabit the Earth.

- a. Identify the similarities and differences in plants:
  - \*Appearance
  - \*Growth
  - \*Change
  - \*Uses
- b. Identify the similarities and differences in animals:
  - \*Appearance
  - \*Growth
  - \*Change
  - \*Purpose

## Earth Science

### 1. Weather – The student will observe, describe, and measure the various types of weather.

- a. Observe daily weather changes throughout the year.
- b. Identify the four seasons and the seasonal and daily changes in weather and changes in the temperature.
- c. Identify tools used to measure weather conditions and record changes from day to day and over the seasons.
- d. Explain that the sun is the source of heat and light that warms the land, air, and water.

#### Experiential Location Suggestions:

Classroom  
Other Classrooms  
Playground  
Empty Lots  
Neighbors' Yards  
Neighborhood Walks  
Fire Station  
Post Office  
Parks  
Nurseries  
Pumpkin Patch  
Zoo

#### Other Theme Suggestions:

*Discovery*  
*Curiosity*  
*Exploration*