

**Kindergarten Science**

**Driving Questions:**

* How do we use our senses (sight, taste, touch, smell, and hearing) to make observations?
* What changes happen to living and non-living things during the different seasons?
* How are rocks, soil, and water different from living things?
* What do habitats provide to living things?
* How do animals and plants grow and change (life cycles)?
* How can different objects be sorted and grouped?
* How do objects move and how do forces change how objects move?
* Why is the pattern of day and night repeating?

**Massachusetts Science and Technology Learning Standards**

**Science Learning Standards**

**Earth and Space Science**

Earth’s Materials

1. Recognize that water, rocks, soil, and living organisms are found on the earth’s surface.

Weather

1. Describe the weather changes from day to day and over the seasons.

Periodic Phenomena

1. Identify some events around us that have repeating patterns, including the seasons of the year, day and night.

**Life Science**

Characteristics of Living Things

1. Recognize that animals (including humans) and plants are living things that grow, reproduce, and need food, air, and water.
2. Recognize that plants and animals have life cycles, and that life cycles vary for different living things.

Heredity

1. Describe ways in which many plants and animals closely resemble their parents in observed appearance.

Living Things and Their Environment

1. Recognize that people and other animals interact with the environment through their senses of sight, hearing, touch, smell, and taste.
2. Recognize changes in appearance that animals and plants go through as the seasons change.
3. Identify the ways in which an organism’s habitat provides for its basic needs (plants require air, water, nutrients, and light; animals require food, water, air, and shelter).

**Physical Science**

Observable Properties of Objects

1. Sort objects by observable properties such as size, shape, color, weight, and texture.

Position and Motion of Objects

1. Describe the various ways that an object can move, such as in a straight line, zigzag, back-and-forth, round-and-round, fast, and slow.
2. Demonstrate the way to change the motion of an object is to apply a force (give it a push or a pull). The greater the force, the greater the change in motion of the object.

**Skills of Inquiry**

* Ask questions about objects, organisms, and events in the environment.
* Tell about *why* and *what would happen if?*
* Make predictions based on observed patterns.
* Name and use simple equipment and tools (e.g., rulers, meter sticks, thermometers, hand lenses, and balances) to gather data and extend the senses.
* Record observations and data with pictures, numbers, or written statements.
* Discuss observations with others.

**Technology/Engineering Learning Standards**

**Materials and Tools**

1.3 Identify and describe the safe and proper use of tools and materials (e.g., glue, scissors, tape, ruler, paper, toothpicks, straws, spools) to construct simple structures.