

## Course/Grade Level: Kindergarten Science Curriculum

**S.K.1** Students will explore the world by observing and manipulating common objects and material in their environment.  
Students will...

S.K.1.1 identify the five senses (taste, sight, touch, smell and hearing).

S.K.1.2 identify properties of objects. (K-2.1.1.1)

Instructional Example: state properties of objects such as leaves, shells, rocks, water, and insects.

S.K.1.3 describe an observation orally or pictorially. (K-2.1.1.5)

Instructional Example:

- draw pictures of two plants: note color, number of leaves
- discuss how two plants are alike and different.

S.K.1.4 separate or sort a group of objects or materials by properties. (K-2.2.1.2)

Instructional Example: compare and sort objects by shapes, size, mass (using balance scale, and color

**Vocabulary:** balance scale, explore, mass, objects, observe, properties,

## **S.K.2 Students will develop an understanding of biological concepts.**

Students will...

S.K.2.1 find that organisms live only in environments in which their needs can be met. (K-2.3.1.1)

Instructional Examples:

- children need air, water, food, shelter and care
- plants need light, air, water, and soil
- animals need air, water, food and shelter

S.K.2.2 observe life cycles of different organisms. (K-2.3.1.2)

Instructional Example: draw life cycle stages of humans, plants, etc.

S.K.2.3 observe organisms in various environments. (K-2.3.1.3)

Instructional Examples:

- care for classroom plants
- take nature walks and field trips in child's own area
- maintain terrariums and aquariums

S.K.2.4 examine the structures/parts of plants and animals (e.g., plants have roots, stems, leaves, flowers; grasshoppers have head, leg, wings, thorax, abdomen). (K-2.3.1.4)

S.K.2.5 identify characteristics of living things (e.g., they take in food, reproduce, and grow).

**Vocabulary:** environment, life cycle, needs, organism, reproduce, and structure

## **S.K.3 Students will observe closely the object in their environment.**

Students will...

S.K.3.1 observe and recognize the sun, moon, stars, and other objects in the sky. (K-2.4.2.1)

S.K.3.2 describe that the sun provides light and warmth. (K-2.4.2.2)

Instructional Example:

- shadows are formed when objects -- buildings, windows, blinds, clouds, etc. block the sun
- standing in the shade is cooler than standing in the direct sunlight

S.K.3.3 observe and record changes in the weather from day to day. (K-2.4.3.1)

**Vocabulary:** graph, thermometer, weather

**S.K.4 Students will experience a variety of educational activities that involve science and technology.**

Students will...

S.K.4.1 explore the way things work (e.g., wind-up clocks, music boxes, and wind-up toys). (K-2.5.1.1)

S.K.4.2 experience science through technology (e.g., use tools such as goggles, balances, thermometers, hand lenses, and science software programs). (K-2.5.1.2)

**Vocabulary:** hand lens

**S.K.5 Students will experience a variety of personal and environmental health activities.**

Students will...

S.K.5.1 engage in personal care. (K-2.6.1.1)

Instructional Examples:

- practice hand washing
- brush teeth
- engage in exercise
- choose appropriate types of clothing to wear
- discuss personal hygiene

S.K.5.2 identify healthy food. (K-2.6.1.2)

Instructional Examples:

- sort and cut out foods into groups
- explain the food pyramid

S.K.5.3 propose ways that humans need to practice being safe (e.g., traffic signals, crosswalks, stranger danger). (K-2.6.1.3)

S.K.5.4 propose ways to care for the environment (e.g., reduce, reuse, recycle: Earth Day project).

**Vocabulary:** food pyramid, nutrition, recycle, reduce, reuse

**S.K.6 Students will apply scientific inquiry and learn about people in science.**

S.K.6.1 use science explorations that make their minds wonder and know that they are practicing science. (K-2.7.1.1)

Instructional Example: The teacher guides students through the scientific process. The following are simple questions that could be used to start the process:

- does a banana float in water?
- what happens if you hold a chocolate chip in your hand?
- what happens if you rub your hands together very fast?

S.K.6.2 use technology to learn about people in science. (K-2.7.1.2)

Instructional Examples (use current resources):

- read short stories
- view videos
- listen to guest speakers

**Vocabulary:** investigate, predict, scientist