

SCIENCE

Science Grade 2

S.2.A Life Science

- A.1. Students will understand the parts and stages of plants.
 - a) Know the parts of a plant (seed, roots, stem, leaves, petals, and fruit).
 - b) Understand the life cycle of a plant (seed to sprout to stem to leaves/buds to flower/fruit to seed).
- A.2. Students will understand the differences, attributes, and habitats of animals.
 - a) Understand that differences exist among the same kind of plants or animals. (i.e. owls)
 - b) Understand that different animals live in different habitats.
 - c) Understand the changes that occur (such as adaptation, migration, and hibernation) for some animals.
 - d) Be aware of endangerment, extinction, and proof of extinction (fossils).

S.2.B Health

- B.1. Students will be introduced to the aspects of a healthy lifestyle.
 - a) Understand the food pyramid.
 - b) Understand the importance of making healthy choices (healthy foods, physical activity, and dental hygiene).
 - c) Be aware of how positive choices affect themselves and their relationships with others. (Supported through the guidance curriculum.)
- B.2. Students will be introduced to the skeletal system of the body.
- B.3. Students will understand the effects of germs on their life.
 - a) Understand where germs are and how they are spread. (Supported through district nurse.)

S.2.C Physical Science

- C.1. Students will understand the structure and properties of matter.
 - a) Understand that there are three states of matter (solid, liquid, and gas).
 - b) Understand that materials can be changed, through dissolving, freezing, and heating.
- C.2. Students will understand that pushing and pulling can change the position of an object (force and motion).
- C.3. Students will understand which characteristics of the sun benefit us here on Earth (heat, energy, and light).
- C.4. Students will gain a basic understanding of the scientific process.
 - a) Understand how to conduct a simple investigation, including a prediction and a conclusion.
 - b) Know that tools (thermometers, magnifiers, rulers, and balances) can be used to gather information.

S.2.D Earth Science

D.1. Students will understand weather-related concepts.

- a) Be aware of the steps in the water cycle.
- b) Understand changes in the weather throughout the year and in different areas.
- c) Be aware that different areas have different severe storms (tornadoes, hurricanes, and blizzards).

D.2. Students will understand the composition of our solar system.

- a) Understand our solar system is made up of a sun, planets, and moons.
- b) Be aware of the relationship between the sun and planets, and between our moon and Earth (day and night, east to west, across the sky, moon appears to change shape, seasons).