

KINDERGARTEN GRADE SCIENCE COMPETENCIES

Life Sciences

Recognize that humans can spread germs that cause disease.

Identify and describe the basic personal hygiene habits for maintaining good health, such as washing one's hands with soap and water and brushing one's teeth.

Recognize that proper nutrition, exercise and rest are all important factors in maintaining good health.

Recognize symptoms, such as fever, rashes, coughing and congestion for common illnesses.

Identify the sense organs, including eyes, ears, nose, mouth, and skin; and describe how each can warn an individual about danger.

Provide examples from personal experience that illustrate how medicine helps humans recover from illness.

Recognize that technology is used in medicine to prevent and cure diseases through vaccinations and medications.

Recognize that some plants and animals go through changes in appearance when the seasons change.

Recognize that living things can be found almost any place in the world; and that specific types of environments are required to support the many different species of plant and animal life.

Recognize and describe how living things respond when exposed to helpful and harmful situations.

Recognize that humans can gather different kinds of information about an object by adjusting their proximity to it.

Differentiate between living and nonliving things; and categorize objects in each group using the significant observable characteristics they share, such as color, shape and size.

Recognize plants and animals as living things and describe how they are alike and different.

Recognize that parents and offspring of many species closely resemble one another, and describe the similarities in appearance of given plant and animal families.

Recognize that living things have a life cycle, during which they are born, grow, and die.

Identify the resources plants and animals need for growth and energy, and describe how their habitat provides these basic needs.

Physical Science

Recognize that sound is produced by vibrating objects and that the pitch of the sound can be varied by changing the rate of vibration.

Recognize that some jobs/careers require knowledge and use of physical science content and/or skills.

Explain that the Sun provides the Earth with heat and light.

Environmental Science

Recognize that solid rocks, soils, and water in its liquid and solid states can be found on the Earth's surface.

Use observable properties, such as color and texture, to classify and organize rocks and minerals.

Differentiate between natural and man-made materials.

Identify environments that are natural, such as a forest, meadow, or mountain and those that have been built or modified by people, including cities, roads, farms, and houses.

Recognize that Earth materials have a variety of properties, including size, shape, color, and texture.

Explain that people should not look directly at the Sun because it is dangerous and may cause injury to the eyes.