

Science on the Gulf

Correlation of NOAA touch tanks to Next Generation Sunshine State Standards

Kindergarten:

Big Idea 1 The Practice of Science

- SC.K.N.1.5: Recognize that learning can come from careful observation.

Big Idea 14 Organization and Development of Living Organisms

- SC.K.L.14.3: Observe plants and animals, describe how they are alike and how they are different in the way they look and in the things they do.

Grade 1:

Big Idea 1 The Practice of Science

- SC.1.N.1.2: Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.
- SC.1.N.1.4: Ask "how do you know?" in appropriate situations.

Big Idea 6 Earth Structures

- SC.1.E.6.2: Describe the need for water and how to be safe around water.

Big Idea 14 Organization and Development of Living Organisms

- SC.1.L.14.1: Make observations of living things and their environment using the five senses.
- SC.1.L.14.3: Differentiate between living and nonliving things.

Big Idea 16 Heredity and Reproduction

- SC.1.L.16.1: Make observations that plants and animals closely resemble their parents, but variations exist among individuals within a population.

Big Idea 17 Interdependence

- SC.1.L.17.1: Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.

Grade 2

Big Idea 1 The Practice of Science

- SC.2.N.1.3: Ask "how do you know?" in appropriate situations and attempt reasonable answers when asked the same question by others.
- SC.2.N.1.5: Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).

Big Idea 17 Interdependence

- SC.2.L.17.1: Compare and contrast the basic needs that all living things, including humans, have for survival.
- SC.2.L.17.2: Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.

Grade 3

Big Idea 1: The Practice of Science

- SC.3.N.1.6: Infer based on observation.
- SC.3.N.1.7: Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.

Big Idea 15: Diversity and Evolution of Living Organisms

- SC.3.L.15.1: Classify animals into major groups (mammals, birds, reptiles, amphibians, fish, arthropods, vertebrates and invertebrates, those having live births and those which lay eggs) according to their physical characteristics and behaviors.

Grade 4

Big Idea 1: The Practice of Science

- SC.4.N.1.3 Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.
- SC.4.N.1.4 Attempt reasonable answers to scientific questions and cite evidence in support.
- SC.4.N.1.7 Recognize and explain that scientists base their explanations on evidence.

Big Idea 16: Heredity and Reproduction

- SC.4.L.16.2 Explain that although characteristics of plants and animals are inherited, some characteristics can be affected by the environment.

- SC.4.L.16.4 Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.

Big Idea 17: Interdependence

- SC.4.L.17.4-Recognize ways plants and animals, including humans, can impact the environment.

Grade 5

Big Idea 1: The Practice of Science

- SC.5.N.1.2 Explain the difference between an experiment and other types of investigation.

Big Idea 14: Organization and Development of Living Organisms

- SC.5.L.14.2 Compare and contrast the function of organs and other physical structures of plants and animals, including humans.

Big Idea 15: Diversity and Evolution of Living Organisms

- SC.5.L.15.1 Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.

Big Idea 17: Interdependence

- SC.5.L.17.1 Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.

Grade 6

Big Idea 1: The Practice of Science

- SC.6.N.1.3: Explain the difference between an experiment and other types of scientific investigation, and explain the relative benefits and limitations of each.

Big Idea 15: Diversity and Evolution of Living Organisms

- SC.6.L.15.1 Analyze and describe how and why organisms are classified according to shared characteristics with emphasis on the Linnaean system combined with the concept of Domains.