



Next Generation Sunshine State Standards in Science Second Grade Benchmarks Overview



Big Idea 1 The Practice of Science

SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systemic observations, and generate appropriate explanations based on those explorations. (High)
SC.2.N.1.2	Compare the observations made by different groups using the same tools. (Moderate)
SC.2.N.1.3	Ask “how do you know?” in appropriate situations and attempt reasonable answers when asked the same question by others. (High)
SC.2.N.1.4	Explain how particular scientific investigations should yield similar conclusions when repeated. (High)
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think). (Moderate)
SC.2.N.1.6	Explain how scientists alone or in groups are always investigating new ways to solve problems. (Moderate)

Big Idea 6 Earth Structures

SC.2.E.6.1	Recognize that Earth is made up of rocks. Rocks come in many sizes and shapes. (Moderate)
SC.2.E.6.2	Describe how small pieces of rock and dead plant and animal parts can be the basis of soil and explain the process by which soil is formed. (High)
SC.2.E.6.3	Classify soil types based on color, texture (size of particles), the ability to retain water, and the ability to support the growth of plants. (High)

Big Idea 7 Earth Systems and Patterns

SC.2.E.7.1	Compare and describe changing patterns in nature that repeat themselves, such as weather conditions including temperature and precipitation, day to day and season to season. (Moderate)
SC.2.E.7.2	Investigate by observing and measuring, that the Sun’s energy directly and indirectly warms the water, land, and air. (High)
SC.2.E.7.3	Investigate, observe and describe how water left in an open container disappears (evaporates), but water in a closed container does not disappear (evaporate). (High)
SC.2.E.7.4	Investigate that air is all around us and that moving air is wind. (High)
SC.2.E.7.5	State the importance of preparing for severe weather, lightning, and other weather related events. (Low)

Big Idea 8 Properties of Matter

SC.2.P.8.1	Observe and measure objects in terms of their properties, including size, shape, color, temperature, weight, texture, sinking or floating in water, and attraction and repulsion of magnets. (Low)
SC.2.P.8.2	Identify objects and materials as solid, liquid, or gas. (Low)
SC.2.P.8.3	Recognize that solids have a definite shape and that liquids and gases take the shape of their container. (Low)
SC.2.P.8.4	Observe and describe water in its solid, liquid, and gaseous states. (Low)
SC.2.P.8.5	Measure and compare temperature taken every day at the same time. (Moderate)
SC.2.P.8.6	Measure and compare the volume of liquids using containers or various shapes and sizes. (Moderate)

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Big Idea 9 Changes in Matter

SC.2.P.9.1	Investigate that materials can be altered to change some of their properties, but not all materials respond the same way to any one alteration. (High)
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Big Idea 10 Forms of Energy

SC.2.P.10.1	Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars. (Low)
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Big Idea 13 Forces and Changes in Motion

SC.2.P.13.1	Investigate the effect of applying various pushes and pulls on different objects. (High)
SC.2.P.13.2	Demonstrate that magnets can be used to make some things move without touching them. (Low)
SC.2.P.13.3	Recognize that objects are pulled toward the ground unless something holds them up. (Low)
SC.2.P.13.4	Demonstrate that the greater the force (push or pull) applied to an object, the greater the change in motion of the object. (Moderate)

Big Idea 14 Organization and Development of Living Organisms

SC.2.L.14.1	Distinguish human body parts (brain, heart, lungs, stomach, muscles, and skeleton) and their basic functions. (Moderate)
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Big Idea 16 Heredity and Reproduction

SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies. (Moderate)
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Big Idea 17 Interdependence

SC.2.L.17.1	Compare and contrast the basic needs that all living things, including humans, have for survival. (Moderate)
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. (Moderate)