

# **Grade Level Expectations for the Sunshine State Standards**

## **Science Kindergarten**



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**Sunshine State Standards  
Grade Level Expectations  
Science  
Kindergarten**

The kindergarten student:

*The Nature of Matter*

- knows that objects have many different observable properties:
  - color
  - shapes (circle, triangle, square)
  - forms (flexible, stiff, straight, curved)
  - textures (rough, smooth, hard, soft)
  - sizes and weights (big, little, large, small, heavy, light, wide, thin, long, short)
  - positions & speeds (over, under, in, out, above, below, left, right, fast, slow)
- knows that matter exists in different states (solid, liquid, gas).
- knows that materials can be changed by cutting, folding, bending, and mixing.
- knows that some objects are made up of many different materials.

*Energy*

- knows the effects of sun and shade on the same object (for example, crayons, ice, chocolate).
- knows that light can pass through some objects, but cannot pass through other objects.
- understands that a terrarium or an aquarium is a model of a system.
- knows some processes where heat can be released (for example, playing a radio, burning a candle).
- understands that people eat food to survive.

*Force and Motion*

- understands that different things move at different speeds (bicycle/motorcycle, car/plane, tortoise/hare).
- knows the names of objects that roll, slide, or fly.
- knows that the motion of an object (for example, toy truck, toy car, ball, marble) can be changed by a push or a pull.
- knows that vibrations caused by sound waves can be felt (for example, on a speaker when music is played, the head of a drum when it is hit, or a tuning fork).

*Processes that Shape the Earth*

- knows that the surface of the Earth is composed of different types of solid materials (for example, sand, pebbles, rocks, clumps of dirt).
- knows that life occurs on or near the surface of the Earth in land, water, and air.

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- uses charts to display daily changes in the weather.
- knows ways to care for the Earth at home and in school (for example, limiting use of paper towels, turning off water while brushing teeth, turning off lights when no one will be in the room).

*Earth and Space*

- knows that the sky looks different during the day than it does at night.
- knows that the position of the Sun in the sky appears to change during the day.
- knows some of the objects seen in the night sky (for example, stars, Moon).

*Processes of Life*

- knows some of the basic needs of living things (for example, food, water, space).
- knows ways living things change and grow over time (for example, seed to flowering plant, tadpole to frog).
- knows that plants and animals are found in different kinds of environments and are often hidden.
- knows selected characteristics of plants and animals (for example, shape, size, color).
- knows names for animal offspring (for example, puppies, kittens, cubs, calves, chicks, children).
- knows that plants and animals may live in different habitats.

*How Living Things Interact with Their Environments.*

- understands ways that animals obtain food from plants and other animals.
- knows that if living things do not get food, water, shelter, and space, they will die.

*The Nature of Science*

- knows that learning can come from careful observation.
- repeats events several times and compares the findings.
- works with a partner or small group to collect information.
- shares findings about scientific investigations with others.
- poses questions, seeks answers, draws pictures of observations, and makes decisions using information.
- knows that the five senses (taste, touch, smell, hearing, sight) allow us to take in and respond to information in order to learn about our surroundings.

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- understands that continuous patterns occur in nature (for example, seasons, phases of the Moon, blooming flowers).
- knows some appropriate tools for collecting information and extending the senses.



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