



South Carolina Science Standards: Birding 101

Third Grade

1. Science and Engineering Practices

a. 3.S.1A.8

- i. Obtain and evaluate informational texts, observations, data collected, or discussions to (1) generate and answer questions, (2) understand phenomena, (3) develop models, or (4) support explanations, claims, or designs. Communicate observations and explanations using the conventions and expectations of oral and written language.

2. Life Science: Environments and Habitats

a. 3.L.5A.1

- i. Analyze and interpret data about the characteristics of environments (including salt and fresh water, deserts, grasslands, forests, rain forests, and polar lands) to describe how the environment supports a variety of organisms.

b. 3.L.5A.2

- i. Develop and use a food chain model to classify organisms as producers, consumers, and decomposers and to describe how organisms obtain energy.

c. 3.L.5B.2

- i. Develop and use models to explain how changes in a habitat cause plants and animals to respond in different ways (such as hibernating, migrating, responding to light, death, or extinction).

Fourth Grade

1. Science and Engineering Practices

a. 4.S.1A.8

- i. Obtain and evaluate informational texts, observations, data collected, or discussions to (1) generate and answer questions, (2) understand phenomena, (3) develop models, or (4) support explanations, claims, or designs. Communicate observations and explanations using the conventions and expectations of oral and written language.

2. Life Science: Characteristics and Growth of Organisms

a. 4.L.5A.4

- i. Construct scientific arguments to support claims that some characteristics of organisms are inherited from parents and some are influenced by the environment.

b. 4.L.5B.3

- i. Construct explanations for how structural adaptations (such as methods for defense, locomotion, obtaining resources, or camouflage) allow animals to survive in the environment.

Fifth Grade

1. Science and Engineering Practices

a. 5.S.1A.8

- i. Obtain and evaluate informational texts, observations, data collected, or discussions to (1) generate and answer questions, (2) understand phenomena, (3) develop models, or (4) support explanations, claims, or

designs. Communicate observations and explanations using the conventions and expectations of oral and written language.

2. Life Science: Interdependent Relationships in Ecosystems

a. 5.L.4A.1

i. Obtain and communicate information to describe and compare the biotic factors) including individual organisms, populations, and communities) of different terrestrial and aquatic ecosystems.

b. 5.L.4B.1

i. Analyze and interpret data to explain how organisms obtain their energy and classify organisms as producers, consumers (including herbivore, carnivore, and omnivore), or decomposers (such as fungi and bacteria).

c. 5.L.4B.3

i. Construct explanations for how organisms interact with each other in an ecosystem (including predators and prey, and parasites and hosts).

Sixth Grade

1. Science and Engineering Practices

a. 6.S.1A.8

i. Obtain and evaluate scientific information to (1) answer questions, (2) explain or describe phenomena, (3) develop models, (4) evaluate hypotheses, explanations, claims, or designs or (5) identify and/or fill gaps in knowledge. Communicate using the conventions and expectations of scientific writing or oral presentations by (1) evaluating grade-appropriate primary or secondary literature, or (2) reporting the results of student experimental investigations.

2. Life Science: Diversity of Life – Classification and Animals

a. 6.L.4A.1

- i. Obtain and communicate information to support claims that living organisms (1) obtain and use resources for energy, (2) respond to stimuli, (3) reproduce, and (4) grow and develop.
- b. 6.L.4B.1
 - i. Analyze and interpret data related to the diversity of animals to support claims that all animals (vertebrates and invertebrates) share common characteristics.
- c. 6.L.4B.2
 - i. Obtain and communicate information to explain how the structural adaptations and processes of animals allow for defense, movement, or resource obtainment.
- d. 6.L.4B.5
 - i. Analyze and interpret data to compare how endothermic and ectothermic animals respond to changes in environmental temperature.

Seventh Grade

1. Science and Engineering Practices

- a. 7.S.1A.8
 - i. Obtain and evaluate scientific information to (1) answer questions, (2) explain or describe phenomena, (3) develop models, (4) evaluate hypotheses, explanations, claims, or designs or (5) identify and/or fill gaps in knowledge. Communicate using the conventions and expectations of scientific writing or oral presentations by (1) evaluating grade-appropriate primary or secondary literature, or (2) reporting the results of student experimental investigations.

2. Ecology: Interactions of Living Systems and the Environment

- a. 7.EC.5A.3
 - i. Analyze and interpret data to predict changes in the number of organisms within a population when certain changes occur to the

physical environment (such as changes due to natural hazards or limiting factors).