

Grade 3

Adopted 2016

Earth and Space Sciences

ESS2. Earth's Systems ESS2

- 3-ESS2-1. Use graphs and tables of local weather data to describe and predict typical weather during a particular season in an area. 3-ESS2-1
- 3-ESS2-2. Obtain and summarize information about the climate of different regions of the world to illustrate that typical weather conditions over a year vary by region. 3-ESS2-2

ESS3. Earth and Human Activity ESS3

- 3-ESS3-1. Evaluate the merit of a design solution that reduces the damage caused by weather. 3-ESS3-1

Life Science

LS1. From Molecules to Organisms: Structures and Processes LS1

- 3-LS1-1. Use simple graphical representations to show that different types of organisms have unique and diverse life cycles. Describe that all organisms have birth, growth, reproduction, and death in common but there are a variety of ways in which these happen. 3-LS1-1

LS3. Heredity: Inheritance and Variation of Traits LS3

- 3-LS3-1. Provide evidence, including through the analysis of data, that plants and animals have traits inherited from parents and that variation of these traits exist in a group of similar organisms. 3-LS3-1
- 3-LS3-2. Distinguish between inherited characteristics and those characteristics that result from a direct interaction with the environment. Give examples of characteristics of living organisms that are influenced by both inheritance and the environment. 3-LS3-2

LS4. Biological Evolution: Unity and Diversity LS4

- 3-LS4-1. Use fossils to describe types of organisms and their environments that existed long ago and compare those to living organisms and their environments. Recognize that most kinds of plants and animals that once lived on Earth are no longer found anywhere. 3-LS4-1
- 3-LS4-2. Use evidence to construct an explanation for how the variations in characteristics among individuals within the same species may provide advantages to these individuals in their survival and reproduction. 3-LS4-2

- 3-LS4-3.** Construct an argument with evidence that in a particular environment some organisms can survive well, some survive less well, and some cannot survive. **3-LS4-3**
- 3-LS4-4.** Analyze and interpret given data about changes in a habitat and describe how the changes may affect the ability of organisms that live in that habitat to survive and reproduce. **3-LS4-4**
- 3-LS4-5(MA).** Provide evidence to support a claim that the survival of a population is dependent upon reproduction. **3-LS4-5(MA)**
-

Physical Science

PS2. Motion and Stability: Forces and Interactions **PS2**

- 3-PS2-1.** Provide evidence to explain the effect of multiple forces, including friction, on an object. Include balanced forces that do not change the motion of the object and unbalanced forces that do change the motion of the object. **3-PS2-1**
- 3-PS2-3.** Conduct an investigation to determine the nature of the forces between two magnets based on their orientations and distance relative to each other. **3-PS2-3**
- 3-PS2-4.** Define a simple design problem that can be solved by applying the use of the interactions between magnets. **3-PS2-4**
-

Technology/Engineering

ETS1. Engineering Design **ETS1**

- 3-5-ETS1-1.** Define a simple design problem that reflects a need or a want. Include criteria for success and constraints on materials, time, or cost that a potential solution must meet. **3.3-5-ETS1-1**
- 3-5-ETS1-2.** Generate several possible solutions to a given design problem. Compare each solution based on how well each is likely to meet the criteria and constraints of the design problem. **3.3-5-ETS1-2**
- 3-5-ETS1-4(MA).** Gather information using various informational resources on possible solutions to a design problem. Present different representations of a design solution. **3.3-5-ETS1-4(MA)**