

Grade 1

Adopted 2019

Waves: Light and Sound

- 1-PS4-1.** Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. [1-PS4-1](#)

- 1-PS4-2.** Make observations to construct an evidence-based account that objects in darkness can be seen only when illuminated. [1-PS4-2](#)

- 1-PS4-3.** Plan and conduct investigations to determine the effect of placing objects made with different materials in the path of a beam of light. [1-PS4-3](#)

- 1-PS4-4.** Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. [1-PS4-4](#)

Structure, Function, and Information Processing

- 1-LS1-1.** Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. [1-LS1-1](#)

- 1-LS1-2.** Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. [1-LS1-2](#)

- 1-LS3-1.** Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. [1-LS3-1](#)

Space Systems: Patterns and Cycles

- 1-ESS1-1.** Use observations of the sun, moon, stars, and tides to describe patterns that can be predicted. [1-ESS1-1](#)

- 1-ESS1-2.** Make and graph observations at different times of year to relate the amount of daylight to the time of year, and graph findings. [1-ESS1-2](#)

Engineering Design

- K-2-ETS1-1.** Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. [K-2-ETS1-1](#)

- K-2-ETS1-2.** Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. [K-2-ETS1-2](#)

K-2-ETS1-3. Analyze and discuss data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. K-2-ETS1-3