

Grade 1

Waves and Their Applications in Technologies for Information Transfer

Wave Properties

Cause and Effect

- 1 Carry out investigations to provide evidence that the vibrations of matter can make sound and sound can make matter vibrate. [1.1](#)
 - 2 Use evidence from observations to explain that light is necessary in order for an object to be seen. [1.2](#)
 - 3 Plan and carry out investigations to determine how light is affected when it interacts with various types of materials. [1.3](#)
 - 4 Design and construct a device that uses light or sound waves to send a communication signal over a distance. [1.4](#)
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From Molecules to Organisms: Structures and Processes

External Structures

Structure and Function

- 5 Use information from observations to explain how various external features help living things survive, grow, and meet their needs. [1.5](#)
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Growth and Development

Patterns

- 6 Obtain information from text and other media to provide evidence that parents and their offspring engage in patterns of behavior that help the offspring survive. [1.6](#)
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Heredity: Inheritance and Variation of Traits

Inherited Traits and Environmental Impact

Patterns

- 7 Make observations to identify the similarities and differences between offspring and their parents. [1.7](#)
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Earth's Place in the Universe

Sun, Moon, and Stars

Patterns

- 8 Observe, describe, and predict patterns of the sun, moon, and stars as they appear in the sky. 1.8
- 9 Use observations of seasonal sunrise and sunset patterns to describe the relationship between the number of hours of daylight and the time of year. 1.9