

**“ESSENTIAL” STANDARDS
FOR SCIENCE**

First Grade

1-PS4-1 Waves and Their Applications in Technologies for Information Transfer

- Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.
- Make observations to construct an evidence-based account that objects can be seen only when illuminated.
- Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.
- 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-LS1-1 From Molecules to Organisms: Structure and Processes

- 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.
- Read text and use media to determine patterns in behavior of parents and offspring that help offspring survive.

1-LS3-1 Heredity: Inheritance and Variation of Traits

- Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.

1-ESS1-1 Earth’s Place in the Universe

- Use observations of the sun, moon, and stars to describe patterns that can be predicted.
- Make observations at different times of year to relate the amount of daylight and relative temperature to the time of year.

1-ESS3-1 Earth and Human Activity

- Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.*