Nebraska Science

Grade 1

Waves: Light and Sound SC.1.2

1 **Gather, analyze, and communicate evidence of light and sound waves.** SC.1.2.1

- a Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. SC.1.2.1.A
- b Make observations to construct an evidence-based explanation that objects can be seen only when illuminated. SC.1.2.1.B
- c Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. SC.1.2.1.C
- d Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. SC.1.2.1.D

Structure, Function, and Information Processing SC.1.6

2 **Gather, analyze, and communicate evidence to show the relationship between structure and function in living things.** SC.1.6.2

- a 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. SC.1.6.2.A
- b 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. SC.1.6.2.B
- c Read grade appropriate texts and use media to determine patterns in a behavior of parents and offspring that help offspring survive. SC.1.6.2.C
- d Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. SC.1.6.2.D

Space Systems: Patterns and Cycles SC.1.11

3 **Gather, analyze, and communicate evidence of patterns and cycles of space systems.** SC.1.11.3

- a Use observations of the sun, moon, and stars to describe patterns that can be predicted. SC.1.11.3.A
- b Make observations at different times of the year to relate the amount of daylight to the time of year. SC.1.11.3.B