

## FOSS® Sound and Light Module

### Glossary

NGSS Edition © 2019

**angle** to turn, move, or point something so that it is not straight or flat (IG)

**back-and-forth motion** vibrations (IG)

**block** to place something front of a light source so that light cannot get through (IG)

**communicate** to share information or feelings (SRB, IG)

**compare** to look at how things are the same and different (IG)

**dark** when there is little or no light (IG)

**detect** to notice or sense (SRB)

**direction** the position (away, towards) something faces (IG)

**ear** a structure on an animal used for hearing (SRB, IG)

**ear drum** a thin, flat structure inside your ear. Sound vibrations cause the ear drum to vibrate. (SRB)

**electric energy** energy present as electricity (SRB)

**eye** a part of the body that detects light. Humans and animals have eyes. (IG)

**flashlight** a light source that has a lightbulb, switch, and batteries (IG)

**gentle** not hard. A gentle tap produces a soft sound. (IG)

**guitar** a stringed instrument that uses strings to produce sound (IG)

**hard** not gentle. A hard tap produces a loud sound. (IG)

**hear** to sense using your ears. Hearing is one of the five senses. (SRB, IG)

**high-pitched** having a high sound. Short strings produce high-pitched sounds. (IG)

**identify** to name what something is (IG)

**information** knowledge or facts (IG)

**instrument** something used to produce music (IG)

**kalimba** an African instrument (IG)

**length** the distance from end to end (IG)

**light** energy that flows in all directions from a radiant source (SRB, IG)

**light detector** something that notices or senses light. Your eyes are light detectors. (SRB, IG)

**light source** anything that makes light, such as the Sun, a lightbulb, or a flame (SRB, IG)

**listen** to pay attention and hear what is being said (SRB, IG)

**low-pitched** having a low sound. Long strings produce low-pitched sounds. (IG)

**loud** a large sound that is easy to hear (SRB, IG)

**medium-pitched** a sound that is not low-pitched or high-pitched, but somewhere in between (IG)

**message** a communication from one person to another (IG)

**mirror** a shiny surface that reflects light (SRB, IG)

**model** a representation of an object or system for investigation (IG)

**motion** the act of moving (SRB)

**observe** to use your senses to get information (SRB, IG)

**opaque** materials that do not allow light through (IG)

**pitch** how high or low a sound is (SRB, IG)

**pluck** to pull the strings of an instrument with your fingers (SRB, IG)

**property** how an object looks, feels, sounds, or tastes (IG)

**radiant** shining (SRB)

**redirect** to change the direction. Mirrors can redirect light beams. (IG)

**reflect** to bounce off an object (SRB, IG)

**reflection** the bouncing of light off an object (SRB, IG)

**shade** a dark area where sunlight is blocked (SRB, IG)

**shadow** the dark area behind an object that blocks light (SRB, IG)

**soft** a quiet sound that is difficult to hear (SRB, IG)

**sound** vibrations that you hear (SRB, IG)

**sound receiver** something that detects sound (SRB, IG)

**sound source** an object or material that vibrates in a way that makes sound (SRB, IG)

**spoon-gong system** a system made of a spoon, string, and cup (IG)

**string** something that can be plucked to make sound. Guitars have strings. (IG)

**structure** any identifiable part of a plant or animal (SRB)

**Sun** a star we see in the day sky. The Sun is a light source. (IG)

**sunlight** light from the Sun (IG)

**system** a set of objects related in some way (IG)

**table fiddle** a simple instrument made of a table, wood blocks, and string (IG)

**translucent** materials that allow some light through (IG)

**transparent** materials that are clear and let light through (IG)

**travel** to move from place to place (IG)

**tuning fork** a device that vibrates and makes sound when tapped (IG)

**vibrate** to move back and forth quickly (IG)

**vibration** a quick back-and-forth motion. Vibration makes sound. (SRB, IG)

**vision** what you see with your eyes. There needs to be light for vision. (IG)

**volume** how loud or soft a sound is (SRB, IG)

**xylophone** a musical instrument made from a set of bars or tubes of different lengths (IG)