

## Objective

By the end of this lesson, you will be able to describe common forms of energy and explore some characteristics of sound energy.

## Materials and Prep

- Pen and paper
- Computer or tablet for research
- No prior knowledge needed

## Activities

- **Energy Scavenger Hunt:** Go around your house and identify different forms of energy (e.g., light, heat, sound). Make a list and describe how each form of energy is being used.
- **Sound Wave Exploration:** Research how sound waves travel and how they are affected by different mediums. Create a simple experiment to demonstrate the concept.
- **Energy Collage:** Create a collage using pictures from magazines or drawings to represent different forms of energy. Label each form and explain its importance.

## Talking Points

- **Definition of Energy:** "Energy is the ability to do work or cause change. It exists in various forms such as light, heat, sound, and motion."
- **Common Forms of Energy:** "Some common forms of energy include kinetic energy (energy of motion), potential energy (stored energy), thermal energy (heat energy), and sound energy."
- **Characteristics of Sound Energy:** "Sound energy is produced by vibrations and travels in waves through mediums such as air, water, or solids. It can be loud or soft, high-pitched or low-pitched."
- **Applications of Sound Energy:** "Sound energy is used in communication, music, and various technologies like sonar and ultrasound."