

52. Pringles Pin-Hole Camera

Classroom Activity: Create a pin-hole camera using a small Pringles chip can.

Grade: 4

Strand (s): Understanding Matter and Energy

This task addresses the following overall expectations:

- investigate the characteristics and properties of light and sound;
- demonstrate an understanding of light and sound as forms of energy that have specific characteristics and properties.

and the following specific expectations:

- investigate the basic properties of light;
- use technological problem-solving skills to design, build, and test a device that makes use of the properties of light or sound;
- use scientific inquiry/research skills to investigate applications of the properties of light or sound
- use appropriate science and technology vocabulary, including natural, artificial, beam of light, pitch, loudness, and vibration, in oral and written communication;
- describe properties of light, including the following: light travels in a straight path; light can be absorbed, reflected and refracted;
- describe how different objects and materials interact with light and sound energy;
- identify devices that make use of the properties of light and sound.

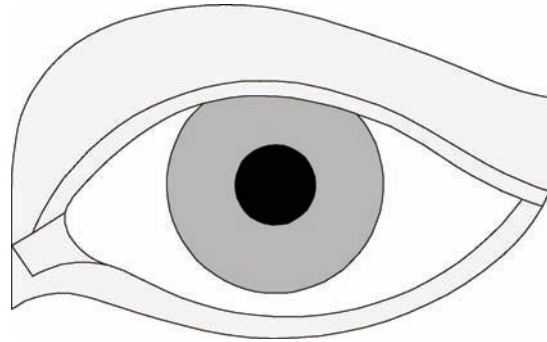
Assessment Categories:

- Knowledge and Understanding
- Thinking and Investigation
- Application

Type of Activity: Classroom/Science Lab

Preparation: gather materials

Materials and Resources for Teachers: no additional resources required



Time needed to complete this activity: 20 minutes

Materials/Resources for students:

small Pringles potato chip can

hammer

nail

Activity Description:

Discuss the similarities between the eye and the camera

Explain the activity

Have students partner-up and choose a flavour of potato chip and eat the chips to empty the can. After putting the lid back on, a small pin-hole is punctured in the metal end. In a darkened room, students should hold up the metal end to a bright object with while and face the lid end. The object can be seen on the lid.