



Name of Demonstration: Simple Circuits

Description of Demonstration: This introduces basic engineering principles, including design, creation, testing to failure, and teamwork. It challenges students to create a simple circuit using a battery, wires, and a light bulb or motor. Geared toward 3rd, 4th, and 5th grades.

MN SCIENCE Grad Stand/Strand/Sub-strand: Number####:
5P 2.1.1.1, 5P 3.2.2.1,
8P 1.1.1.2

Grade Level(s): 5th through 8th Grades

Content Area(s): Physical Science, Engineering

Learning Target(s):

1. I can explain how to obtain evidence that the temperature of a substance is affected by the transfer of energy, the amount of the mass, and the type of matter.

Essential Question(s):

1. What effect does the transfer of energy have on the temperature of a substance?
2. What effect does the mass of an object have on the temperature of a substance?
3. What effect does the type of matter have on the temperature of a substance?

Key Vocabulary: Circuit, Current, Energy Transfer.

Prerequisite Terms: Differences, Energy, Mass, Similarities, Substance