

**Grade Level Content Statement Topic:**

Physical Science- Electricity, Heat and Matter

4.PS.1 When objects break into smaller pieces, dissolve, or change state, the total amount of matter is conserved.

4.PS.2 Energy can be transferred from one location to another or can be transformed from one form to another.

**I can statements:**

Students will be able to understand how energy transfers from hot objects to cold objects as heat, resulting in a temperature change.

Students will be able to understand how electric circuits require a complete loop of conducting materials through which an electrical energy can be transferred.

Students will be able to understand how electrical energy in circuits can be transformed to other forms of energy, including light, heat, sound and motion.

Students will be able to understand how electricity and magnetism are closely related.

**Vocabulary-**

Conductor	Insulator
Pulses	demonstration
Temporary	parallel circuit
Closed circuit	open circuit
Magnetic field	electromagnet