

## Electricity and Magnetism

TITLE: Electric Currents  
GRADE LEVEL: 4<sup>th</sup> Grade  
SUBJECT: Science

PURPOSE: This lesson is the second in a sequence of lessons designed to teach students about electricity and magnetism. This lesson will introduce students to the concepts that relate to electric currents.

### OBJECTIVES/GOALS:

Students will:

1. Identify the difference between static electricity and electric current; (static electricity doesn't move, electric currents flow through a circuit)
2. List the parts and their function of a simple circuit; (insulators, conductors, resistors, electric cells)
3. Construct simple, series, and parallel circuits.

### KEY VOCABULARY:

- electric current
- conductor
- insulator
- resistor
- electric cell
- circuit
- series circuit
- parallel circuit

### RESOURCES/MATERIALS:

For teacher:

1. 1. Group materials listed below
  2. 2. Safety rules transparency
  3. 3. Vocabulary Graphic Organizer transparency
- • Each group will have:
    1. 1 C-cell battery
    2. 2. 1 battery holder with a wire attached from each end
    3. 3. 1 light 6.3 volt light bulb
    4. 4. 1 light bulb holder with wires attached
    5. 5. 4 holiday lights
  - • Each student will have a science journal that includes:
    1. 1. Assigned roles of each group member
    2. 2. Important Safety Rules about Electric Currents
    3. 3. Vocabulary graphic organizer
    4. 4. Instructions for the investigations
    5. 5. "Electric Currents Wrap-Up" worksheet.