



**SYNERGISTIC  
SYSTEMS**

A DIVISION OF PITSCO, INC.

# PARENT BRIEFING

## Module

# Electricity

- Classify samples of electrical conductors and insulators using a voltage and ohm meter.
- Test material samples for electrical conductivity using an insulator conductor board.
- Demonstrate knowledge of electrical circuits by wiring series and parallel circuits on an educational instrument.
- Observe the strength and direction of magnetic lines of force.

## Session Focus

**1** Simple Circuits

**2** Series Circuits

**3** Parallel Circuits

**4** Electricity and Magnetism

**5** Motor Circuits

**6** Measuring Voltage

**7** Measuring Current

### Dear Parent,

As parents and teachers, we realize it can be hard to get a child to discuss what he or she is learning in school. We hope the information provided on this page will assist you in communicating with your child about what he or she is learning.

For the next few days, your child will be learning about magnetism, motors, voltage, resistance, and measurement by completing the Electricity module. As your child's best teacher, your participation in the learning process is extremely important.

### Words students will learn in this module include:

- alternating current
- insulator
- current
- battery
- motor
- ohm
- ground
- conductor
- electrons
- direct current

### Questions for discussion

During the course of this module, your child will be assessed on key concepts and activities. You might want to discuss these concepts with your child.

He or she will be asked to:

- Explain the proper use of a wire stripper. *(The wire is placed in the proper stripping notch leaving about half an inch protruding from the far end. The remaining length of wire is moved up and down to more cleanly cut through the insulation, and then the half-inch of insulation is removed by pushing or pulling the wire-stripper off the wire.)*
- Describe how motor circuits work. *(Electricity flows out of the source and through the motor, causing the motor shaft to turn, and then the electricity flows back to the source.)*
- Define insulator as it relates to electricity. *(An insulator resists the flow of electricity.)*



Instructor: \_\_\_\_\_