

Name:

# Electricity & Magnets (Teacher Version)

## Static vs Current Electricity

**Static electricity** is build up of electric charge. **Current electricity** moves through wires or some other medium.

Can you determine if these everyday examples of electricity are **a c** or **c e** electricity?

Clockwise from top left: Current, Current/Static (electric ink adhesion), Current, Static, Current, Static

## Easy Electromagnet!

### **M a e a :**

- Scissors
- Wire
- Screwdriver
- Ruler
- 4.5-volt batter
- Metal paper clips

**I c :**

Name: \_\_\_\_\_

## Talk About It!

1. What happened when you connected both ends of the battery? *The paperclips were attracted to the screwdriver.*
2. Why do you think this happened? *Electricity and magnetism are very closely related. When the electrical circuit was completed, you rearranged tiny parts of the screwdriver and made it become an electromagnet.*

## Motors

Electromagnets can also be used to make motors, as see here and in the demo video.

Where do you have motors in your house?

Name:

**I a e S ce :**

**S a c C e E e c c :**

1. How Stuff Works: <http://science.howstuffworks.com/electricity9.htm>