

# Electricity & Magnets

## Study Guide & Review Worksheets

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

### Electricity and Magnetism

1. What are 3 examples of conductors?
2. What are 3 examples of insulators?
3. Jules is an electrician. Why does he wear light clothing?
4. What happens to the flow of electricity in a circuit when a switch is open?
5. Amy rubs a balloon on her head. Her balloon! What causes Amy's hair to stand up?

### Electricity & Magnets

#### Terms to Know

- Conductor: Materials that allow electricity to easily flow through them.
- Insulator: Materials that do not allow electricity to flow easily through them.
- Open Circuit: A circuit that does not allow a continuous flow of electricity.
- Closed Circuit: A complete circuit that allows electricity to flow.
- Electrical Energy: Energy produced by the movement of charged particles.

#### Conductors

Conductors are materials which allow electricity to easily flow through them.

#### Insulators

Insulators are materials that do not allow electricity to flow easily through them.

#### Simple Circuit

A simple circuit consists of a bulb, battery, and wire.

#### Open Circuit

In an open circuit, there is an opening in the path. The opening stops the flow of the electrical current.

#### Closed Circuit

In a closed circuit, the path is complete. The completed path allows the electrical current to continuously flow.

#### Electricity

My charged particles move when coming out of the other example is lightning.

#### Magnets

Example: The bottom electromagnet has more strength because it has more coils.

#### Transformations

Changed into other forms of energy

##### Electrical to Mechanical

##### Electrical to Thermal

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# Atampt Basic Electricity Study Guide

**Educational Research Information  
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