

# Electricity & Magnets

## Study Guide & Review Worksheets

Name \_\_\_\_\_

### Electricity and Magnets

1. What are 3 examples of conductors?
2. What are 3 examples of insulators?
3. Julius is an electrician. Why does he use a light switch?
4. What happens to the flow of electricity in an open circuit?
5. Amy rubs a balloon on her head. Her hair is attracted to the balloon. What causes Amy's hair to be attracted to the balloon?

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### 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.



gold



copper



iron

#### Insulators

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



rubber



wood



plastic

#### 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.

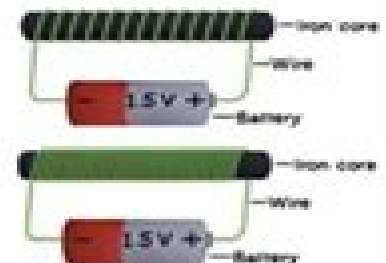
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### Electricity

Electricity is the flow of charged particles or when coming out of the ground, it is called lightning.



### Magnets



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

### Energy Transformations

Energy can be transformed into other forms of energy.

#### Electrical to Mechanical



fan

#### Electrical to Thermal



toaster

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# Basic Knowledge For Electricity Test Study Guide

**JS Bruner**



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