

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

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 allows current to flow continuously.

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Static Electricity

Static electricity is the transfer of negatively charged particles between materials. Clothes sticking together when coming out of the dryer is an example of static electricity. Another example is lightning.



Electromagnets

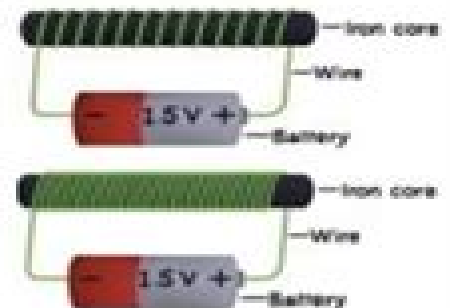
A current flowing through a wire creates a magnetic field. Wrapping a wire around metal containing iron and creating a closed circuit makes an **electromagnet**.

Items needed to make an electromagnet:

- battery
- wire
- nail (or other metal object containing iron)

You can change the strength of an electromagnet by:

- changing the number of coils
- reducing or increasing the current
- changing the size of the wire
- using a different iron core



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

Electrical Energy Transformations

Electrical energy can be transformed into other forms of energy.

Electrical to Radiant



lamp

Electrical to Mechanical



fan

Electrical to Thermal



toaster

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Study Guide: Version # 1

Gobooke Electricity Study Guide

Sidney Aylmer-Small



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wing of a fly or even a whole insect inside the stomach

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