

Electricity Study Guide

Energy can move from one location to another through electrical circuits. We can transform electrical energy into different forms of energy to use in our daily lives.

Electric Circuits:

Electrical energy is energy caused by moving electrical charges. A continuous flow of electrical energy creates an **electric current**. We use **current electricity** every day to power buildings and homes.

The pathway taken by an electric current is called a **circuit**. A circuit is a system of different components that allow electrical energy to flow.

A **simple circuit** can be created using a light bulb, a battery (dry cell), and a wire.



In this circuit, electrical energy flows in a loop from the negative end of the battery, through the light bulb, and back to the battery through the positive end.

- **Closed circuits** allow the flow of electrical energy. Everything in the circuit is connected in a continuous path, so a light bulb will light.



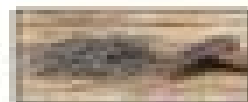
- **Open circuits** prevent the flow of electrical energy. There is a break somewhere in the circuit, so a light bulb will not light.



Conductors & Insulators:

Not all materials allow electrical energy to easily flow in a current.

Conductors are materials that allow electricity to easily flow through them. Most metals are conductors (like copper, aluminum, and iron).



Insulators are materials that do not allow electricity to flow easily through them. Insulators, like rubber, plastic, and wood, are useful when you want to slow or stop the flow of electricity. For example, plastic covers on electrical wires stop electricity from passing to our fingers when we touch them.



Some objects can be both conductors and insulators, depending on what part of the object you connect to the circuit. For example, the metal head of a hammer is a good conductor, and the wood handle is a good insulator.

Chapter Review Electricity Study Guide

Arshad Iqbal



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