

Case Study - To be passed in

Electric Current

- The flow or movement of electric charges (positive and negative) from one place to another is called **electric current**.



- Electric current flows through a controlled path called an **electric circuit**. Electric circuits are used to convert electrical energy into other forms of energy.

Ex. a light bulb



The Parts of an Electric Circuit

1) Source of Electrical

Energy: a way to produce electrical energy.

Ex. battery, cells



2) Electrical Load: what converts electrical energy into whatever form we need. More simply, whatever we are running at the time. Ex. toaster



3) Electric Circuit Control

Device: controls the flow of electricity. Ex. light switch, thermostat



4) Connectors: the conducting wires (what the charges move through).

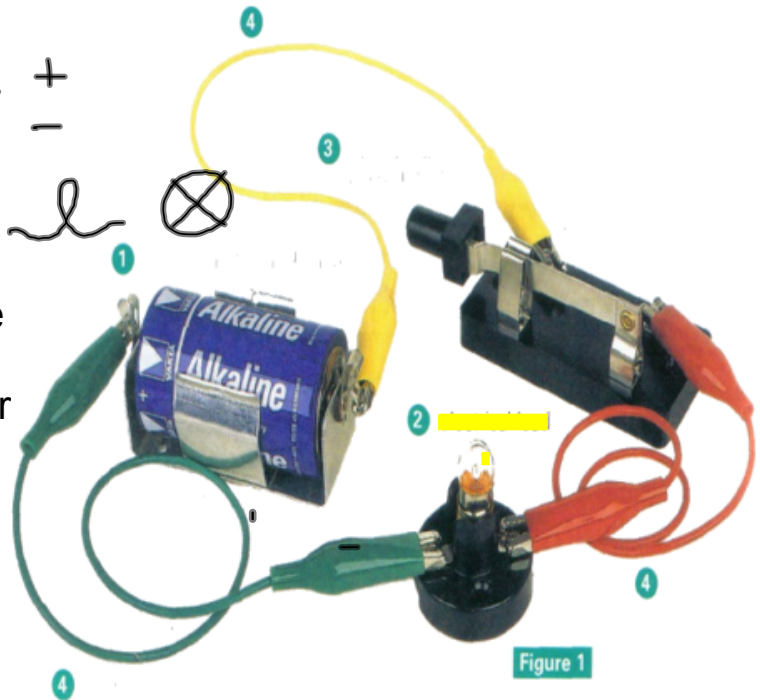
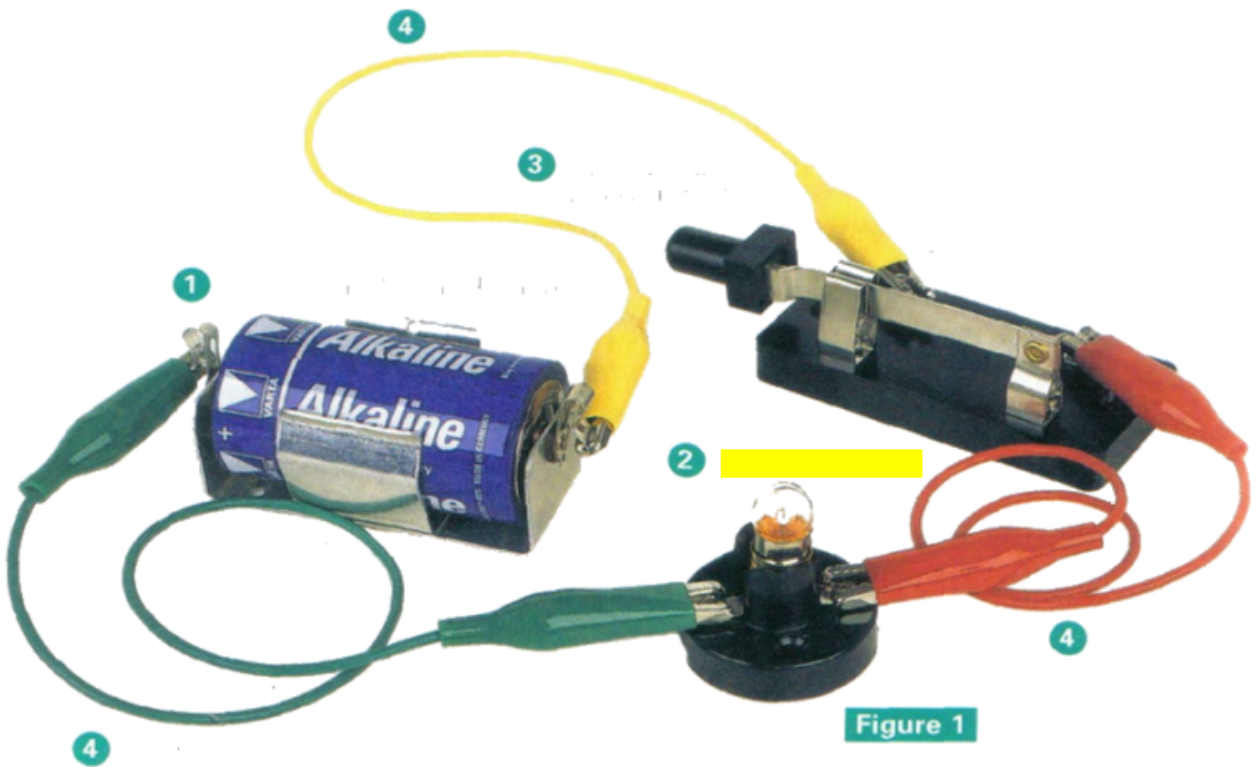


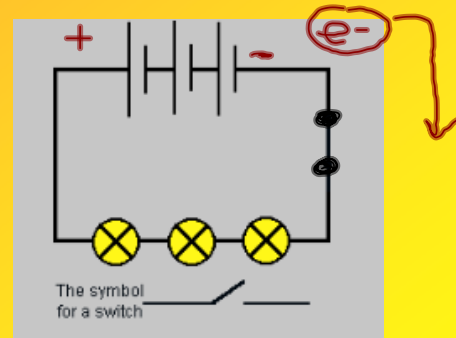
Figure 1

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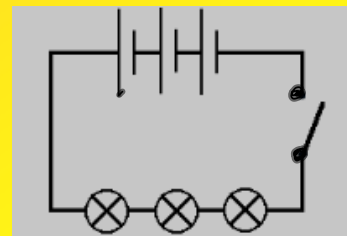


Control Devices Closed or Open Circuit

- A closed circuit is one in which electricity is flowing. Ex. “on”
In a closed circuit, electric current flows in a continuous loop from the negative to the positive terminal of the cell. Switch is closed.



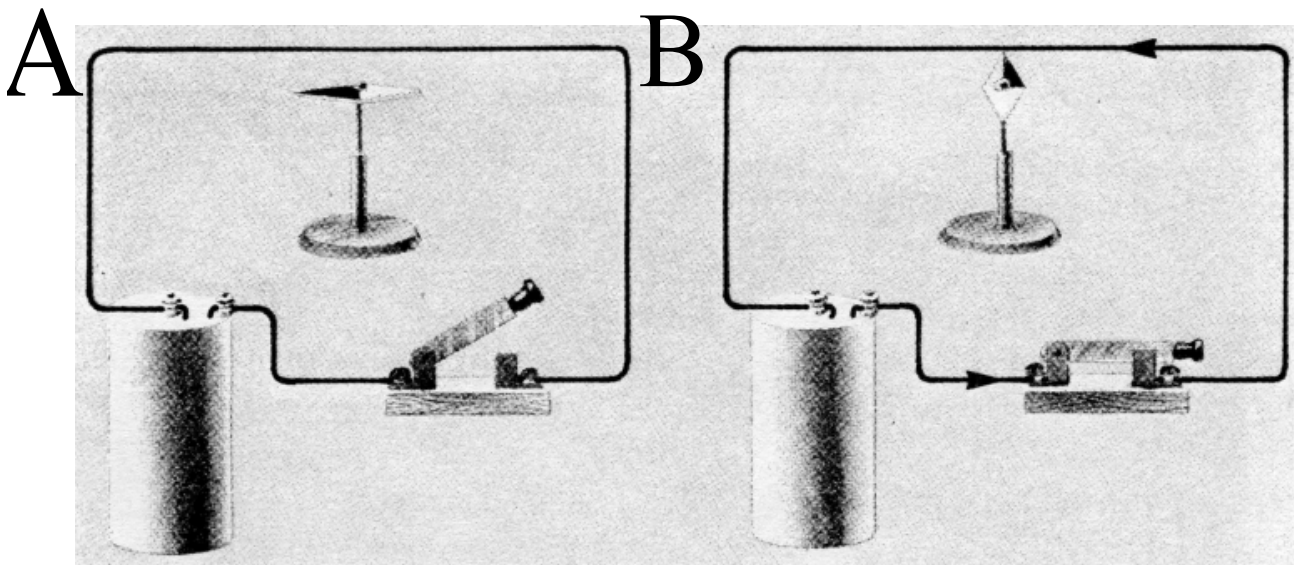
- An open circuit is one in which there is a break in the flow of electricity. Ex. “off”. Switch is open.



Circuit

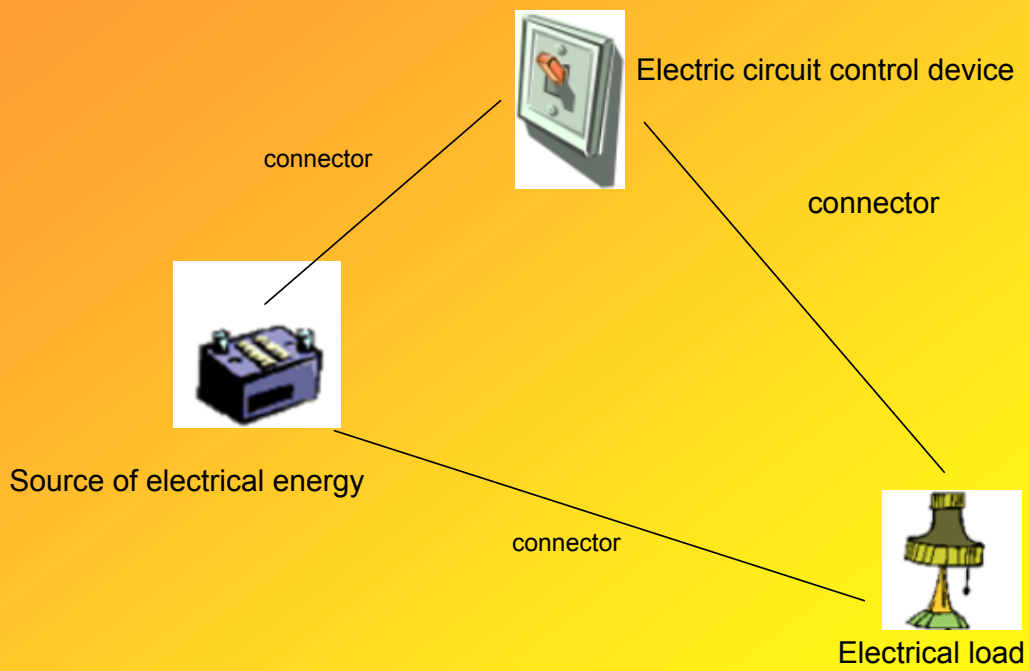
Click here to close the switch





Which circuit is open?
Which circuit is closed?
How can you tell?

A Simple Electric Circuit





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Attachments

Chp 9 senteo quiz.notebook