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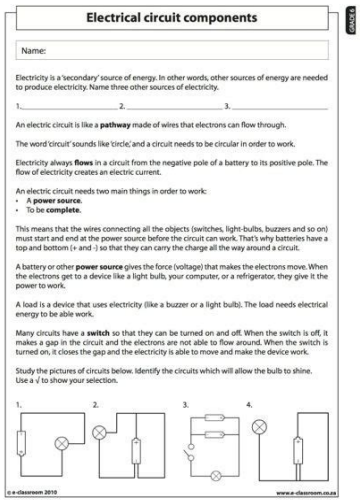

Electrical circuit components

Name:

Electricity is a 'secondary' source of energy. In other words, other sources of energy are needed to produce electricity. Name three other sources of electricity.

1. _____ 2. _____ 3. _____

An electric circuit is like a **pathway** made of wires that electrons can flow through.

The word 'circuit' sounds like 'circle,' and a circuit needs to be circular in order to work.

Electricity always **flows** in a circuit from the negative pole of a battery to its positive pole. The flow of electricity creates an electric current.

An electric circuit needs two main things in order to work:
- A **power source.**
- To be **complete.**

This means that the wires connecting all the objects (switches, light-bulbs, buzzers and so on) must start and end at the power source before the circuit can work. That's why batteries have a top and bottom (+ and -) so that they can carry the charge all the way around a circuit.

A battery or other **power source** gives the force (voltage) that makes the electrons move. When the electrons get to a device like a light bulb, your computer, or a refrigerator, they give it the power to work.

A load is a device that uses electricity (like a buzzer or a light bulb). The load needs electrical energy to be able work.

Many circuits have a **switch** so that they can be turned on and off. When the switch is off, it makes a gap in the circuit and the electrons are not able to flow around. When the switch is turned on, it closes the gap and the electricity is able to move and make the device work.

Study the pictures of circuits below. Identify the circuits which will allow the bulb to shine. Use a √ to show your selection.

1. 2. 3. 4.

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