

WALT: revisit electrical components in a circuit.

Science

Learning Objective



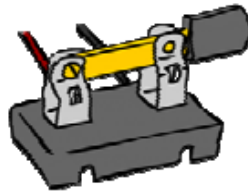
I can describe the function of electrical components and match them to their symbols.

Me:   

Teacher:   

Electrical components are the different parts which make up electrical circuits. Electrical components are made up of different parts and have different functions. Some common electrical components include **switches**, **bulbs**, **buzzers**, **motors**, **cells** and **wires**.

Switches allow a circuit to be opened or closed. They work by bridging a gap in the circuit. When the switch is open, electricity cannot flow around the circuit and the components cannot function. When the switch is closed, the circuit is completed and electricity can flow around it. We use switches to turn devices on and off.



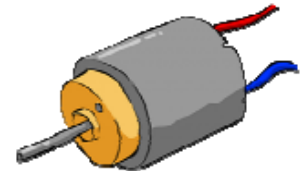
Bulbs contain very thin pieces of wire, called filaments. When electricity passes through the filament, energy is released in the form of light (and heat). The filament is covered by a transparent glass bulb, which allows the light to pass through it.



Buzzers create a sound when electricity passes through them. The sound can be different depending on the type of buzzer.



Motors convert electrical power into mechanical power (movement). They work by using electromagnets (magnets which are powered by electricity) to move a magnetic rotor around an axis.



Cells convert electrical energy into mechanical energy. They contain two chemical substances that react with each other, a flow of tiny particles called electrons. Electrons flow out of the negative terminal of the battery and around the electrical circuit, allowing the other components to function.



Wires consist of two parts - a metal core and an outer coating. The inner core is made of metal wire, which conducts electricity, while the coating is made from an insulating material such as plastic.



Activity

Cut out the circuit symbols, diagrams and descriptions on the following page and paste them in their correct positions in the table. For an added challenge, write your own descriptions.

Outstanding 

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