

Year 6 Knowledge Organiser Electricity

Skills

- Investigating the effect of adding more bulbs to a circuit
- Investigating the effect of adding more cells to a circuit
- Investigating the effect of adding more buzzers to a circuit
- Investigating the effect of adding more motors to a circuit
- Make circuits using a different number of components (draw circuit diagrams using conventional symbols)
- Explore different types of switches and their suitability for different purposes

Knowledge

- Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
- Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches
- Use recognised symbols when representing a simple circuit in a diagram

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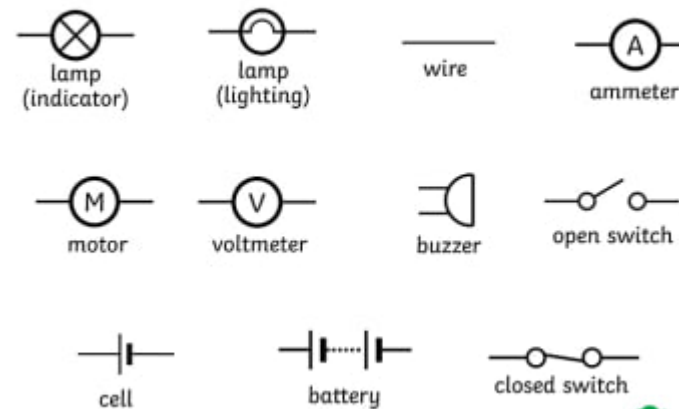
Key vocabulary

circuit	<i>a closed loop for electricity to travel around</i>
component	<i>a part used in an electrical circuit</i>
electricity	<i>a form of energy caused by electrons moving</i>
cell (battery)	<i>a stored source of electricity</i>
switch	<i>a switch turns an electrical circuit on or off by completing or breaking the circuit</i>
conductor	<i>an object that allows electricity to flow through it easily (objects made of metal are good conductors)</i>
insulator	<i>an object that does not allow electricity to flow through it easily</i>
circuit symbols	<i>see diagram</i>
voltage	<i>a force that makes electricity flow through a wire (it is measured in volts)</i>
motor	<i>a machine that turns electrical energy into movement</i>

Facts

- We use scientific symbols to represent the components (parts) of a circuit.
- The brightness of a bulb or the loudness of a buzzer is affected by the number of cells in a circuit.
- The brightness of a bulb or the loudness of a buzzer is affected by the voltage of cells in a circuit.
- The number of components in a circuit can affect how they function.
- The arrangement of components in a circuit can affect how they function.
- The length of wires in a circuit can affect how the components function.

Electrical Circuit Symbols



TYPES OF ELECTRIC CIRCUITS

