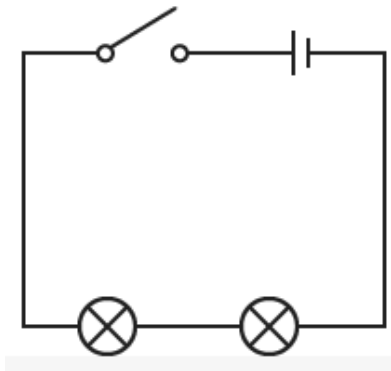


Core Knowledge—Circuits

- In a series circuit, all the components are joined in a closed loop so an electric current can flow.
- Turning a switch off (open) breaks a circuit so the circuit is not complete and electricity cannot flow. Any bulbs, motors or buzzers will then turn off as well.
- Adding more cells to a complete circuit will make a bulb brighter, a motor spin faster or a buzzer make a louder sound. If you use a battery with a higher voltage, the same thing happens.
- Adding more bulbs to a circuit will make each bulb less bright. Using more motors or buzzers, each motor will spin more slowly and each buzzer will be quieter.



Key Vocabulary

Vocabulary	Definition
battery	A container of one or more cells in which chemical energy is converted into electrical energy and used as a source of power.
cell	A single unit used for converting chemical or solar energy into electricity.
circuit diagram	Circuit diagrams represent the components and connections of a circuit through recognised symbols.
component	A part used in an electrical circuit
voltage	Voltage is the force that pushes electricity around a circuit measured in volts(V)

Core Knowledge—Circuit symbols

<p>cell</p>	<p>battery</p>	<p>wire</p>	<p>motor</p>
<p>bulb</p>	<p>buzzer</p>	<p>open switch</p>	<p>closed switch</p>

Scientific Enquiry