

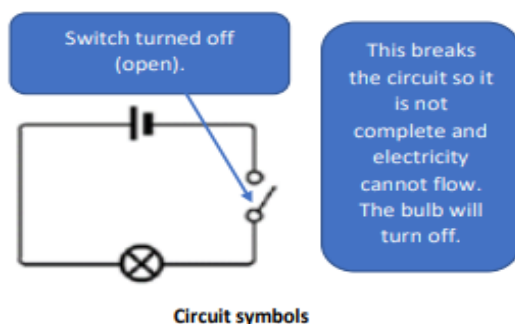


Year 6 Science Knowledge Organiser Topic- Electricity Unit- Physics



Key Vocabulary

circuit	A complete path that an electric current can flow around. It flows from the battery, through wires and devices before returning to the battery. If the circuit is not complete the electric current cannot flow.
symbol	A symbol used to represent various electronic components or functions in a diagram of a circuit.
cell/battery	A single electrical energy source. A battery consists of one or more cells
switch	An electrical component that can make or break an electrical circuit. When a switch is open (off), there is a gap in the circuit and electricity cannot flow around the circuit.
voltage	Volts are a measure of the energy of a flow of electricity. Mains electricity carries a voltage of 210-240 volts. A typical cell in school has 1.5 volts
current	The flow of electrons measured in amps
amps	How electric current is measured



cell	
battery	
wire	
bulb	
buzzer	
motor	
switch	Open switch Closed switch

Significant scientists

Nicholas Tesla
(1856-1943)



Nicholas Tesla was a Serbian-American engineer and physicist. He invented the first alternating current (AC) motor and developed AC generation and transmission technology. He worked for Thomas Edison when he first moved to New York.

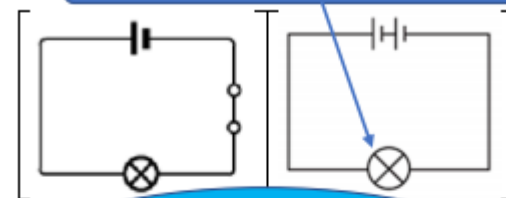
Peter Rawlinson



Peter Rawlinson is a British engineer based in California. He is working on the development of electric vehicles, providing clear vision for a next-generation product.

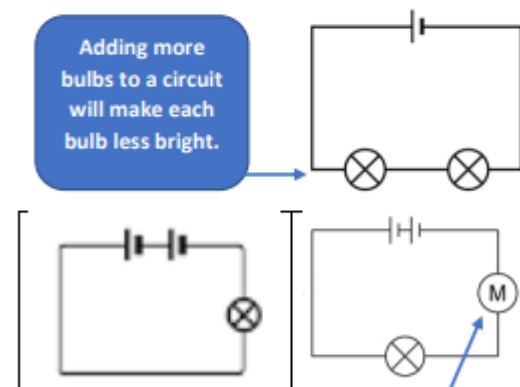
Adding more cells to a circuit makes a bulb brighter:

The bulb in this circuit will be brighter.



If you use a battery with a higher voltage, the bulb would also be brighter.

Adding more bulbs to a circuit will make each bulb less bright.



If we add a motor into a circuit with a single bulb, the bulb will be less bright.

If we then add more motors to the circuit, each motor will spin more slowly.