

Key vocabulary	
Electricity	A form of energy from charged particles.
series circuit	A single pathway through which electricity can play
Parallel circuit	A parallel circuit splits the current along multiple paths before meeting up again meaning that every component in a circuit is assured a charge.
Resistance	A measure of how hard it is for electricity to pass through a component.
Voltage	Voltage is a measure of how strong the current is in the circuit. It is what pushed the current through the circuit to a device.
Circuit diagram	A graphical representation of electrical circuits.

What does a complete circuit need?



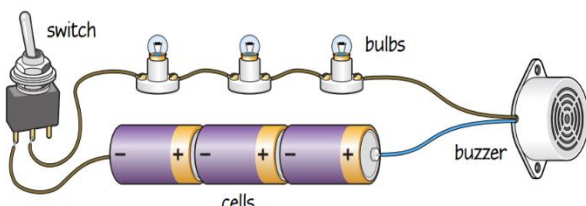
For a circuit to be **complete**, it must:

- Contain a power source (i.e. battery)
- It must be closed
- It must have no gaps
- It must contain a component

How can I make a bulb brighter/buzzer louder/motor faster:

- Reduce the number of components
- Increase the number of batteries

I can turn my circuit on/off by adding a switch



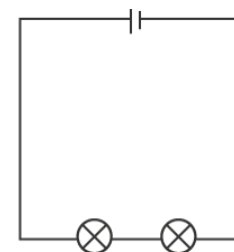
Electricity - Year 6

Component name	Picture	Symbol
Wires		—
Batteries		
Cell		
motor		
Bulb		
buzzer		
Switch		

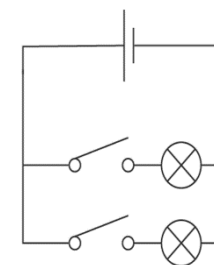
What is a circuit diagram?

A picture of a circuit	A diagram of the same circuit

What are series and parallel circuits?



Series circuit shown here – All of the components in the circuit are connected one after the other along the same pathway – with no branches.



A parallel circuit is a way of connecting components on separate branches, so the current can take different routes around the circuit.