

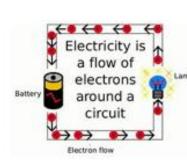


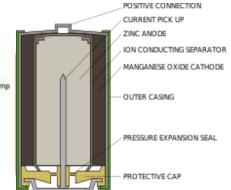
Knowledge Organiser – Electricity (Science Year 6)

Key	Definition
Vocabulary	
Terminal	Point of connection
	for closing an electric
	circuit.
Voltage	Force of an electrical
	current.
Current	Flow of electrical
	charge.
Resistance	Reducing the electric
	current flow through a
	material.

An electric current can only flow when there is a complete circuit.

Electrons are small particles with a negative electric charge. The flow of electrons in a circuit is known as a current.



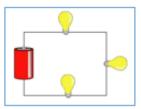


Batteries store chemical energy and change it to electrical energy.



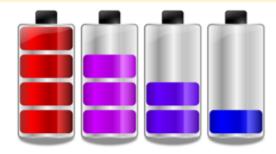
A cell is the basic unit that produces electricity, and a battery has two or more cells.

A circuit connected in **series** contains components attached to each other, like holding hands in a circle.



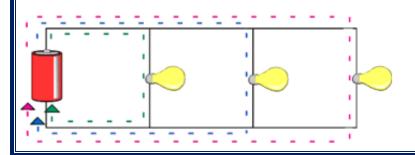
Components connected in a parallel circuit are connected across each other. Voltage is the electrical force which causes electrons to flow around a circuit. It is measured in units called volts (V).

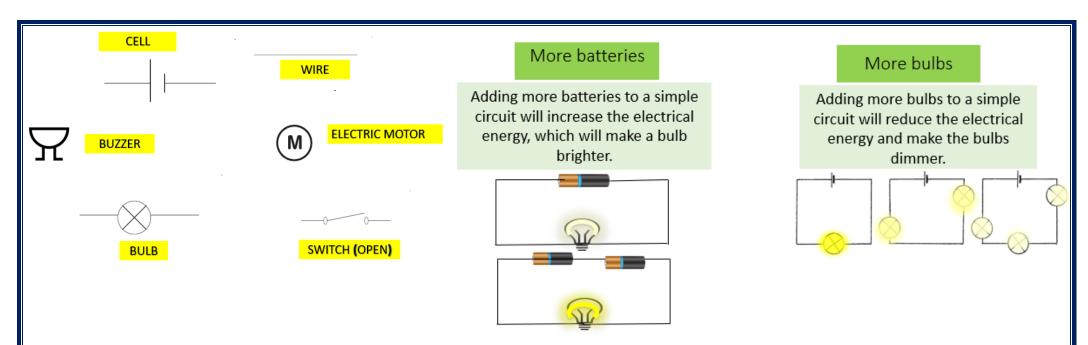
NEGATIVE TERMINAL



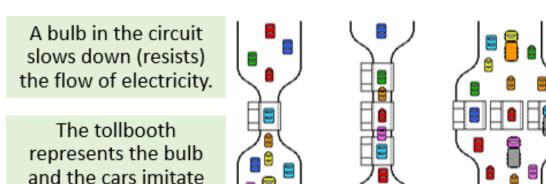
Increasing the battery voltage does two things:

- it increases the energy supplied.
- it drives the charge around the circuit at a greater rate.





This diagram of a flow of traffic through a tollbooth can help explain the effect bulbs have in different types of circuit.



the flow of electricity.

More tollbooths (bulbs) in series would slow down the flow of traffic even further so the bulbs would become dimmer. If the tollbooths (bulbs) were in parallel, there would be a greater flow of traffic (electricity) and the bulbs would be of equal brightness.