

Science

Circuits



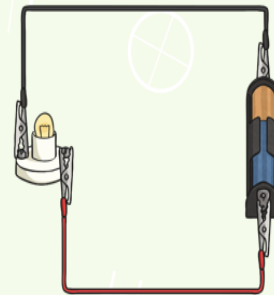
What is a circuit?

What parts do all circuits contain?

Can you draw a circuit which includes a bulb?



Circuit Diagram



How can you explain this circuit?

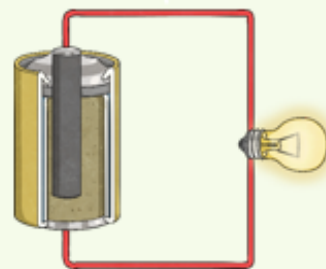
Battery or Cell?

In everyday language we call a single cell a 'battery' but this is not the correct scientific usage.



Scientifically, this is a cell. It is a single unit, containing two electrodes and an electrolyte.

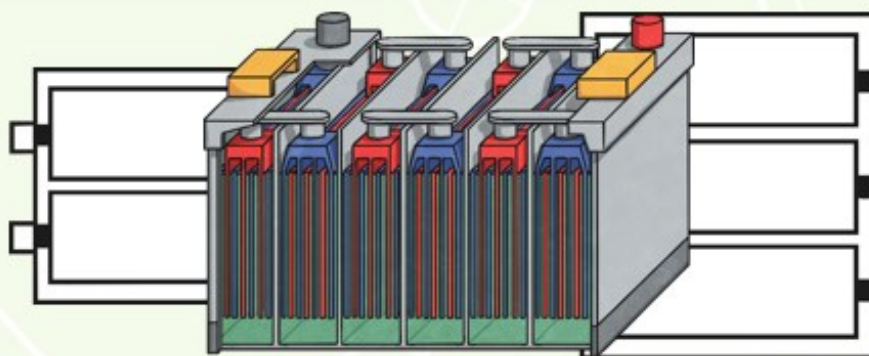
Electrodes are charged electrical conductors inside a cell. Each cell has one positive and one negative electrode.



An electrolyte is a chemical that reacts with the electrodes to produce an electrical current.

Battery or Cell?

A battery is the scientific name for a collection of cells joined together.

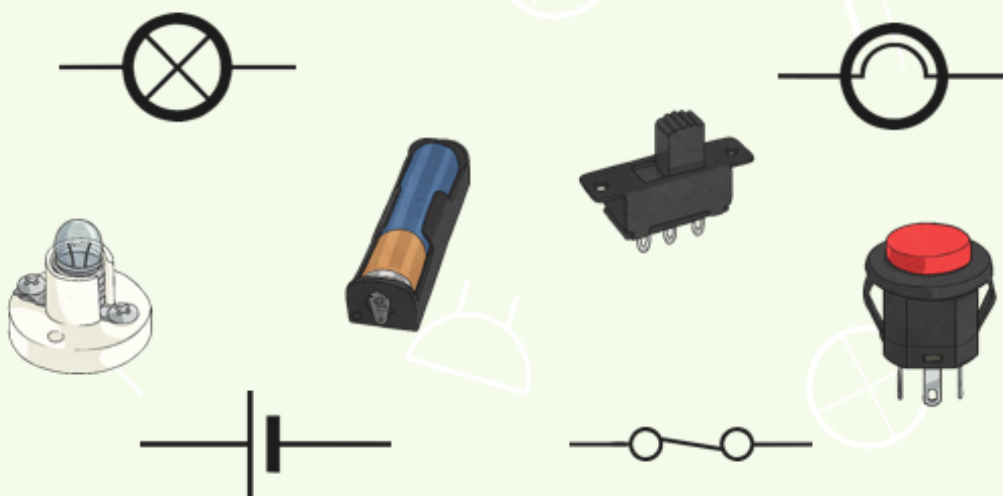


The above diagrams show single cells in individual cases linked together. Some larger batteries, such as car batteries, contain the multiple cells inside one case.

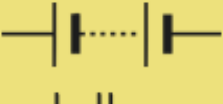
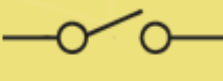
Scientific Circuit Symbols



Match the parts of a circuit with their scientific symbols.
(Sometimes there will be more than one symbol for a circuit part)



[illegible]

		
bulb	bulb	cell
		
battery	wire	motor
		
buzzer	open switch - off	closed switch - on

Start

End