

Discovery















This week we will be looking at a electricity and circuits. Children should use the BBC Bitesize website to discover as much about circuits as possible –

<https://www.bbc.co.uk/bitesize/topics/z2882hv/articles/zcwnv9g>

<https://www.bbc.co.uk/bitesize/topics/zq99q6f/articles/zs7g4j6>

<https://www.bbc.co.uk/bitesize/topics/zq99q6f/articles/zt8vg82>.

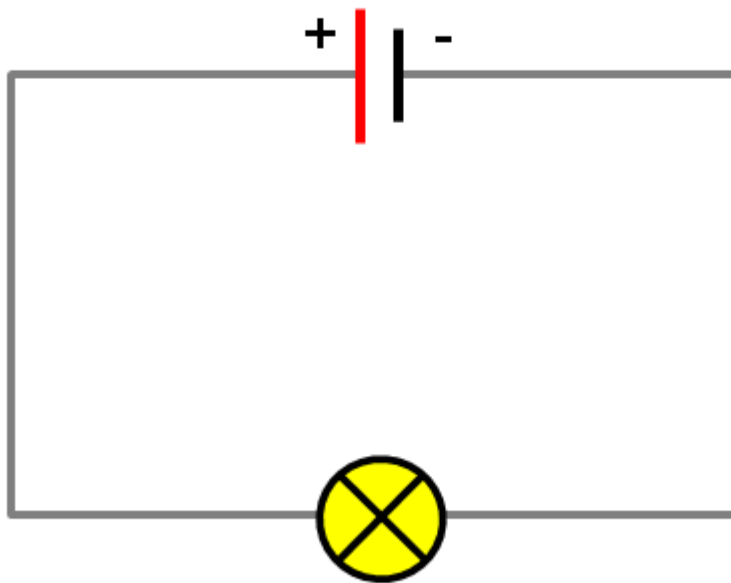
To be able to effectively draw circuits symbols were assigned to the main parts of them:

	BULB (LAMP) A component which lights up when electricity passes through it in a circuit	
	MOTOR A component which moves (spins) when electricity passes through it in a circuit	
	BUZZER A component which makes a sound when electricity passes through it in a circuit	
	WIRE Plastic-coated electrical wire which conducts electricity around a circuit	
	SWITCH Part of a circuit which can easily be opened or closed to control the flow of electric current	
	CELL - 1 battery A safe power source. A store of chemical potential energy that can power a circuit	
	CELL - 2 batteries Two cells used together to make a more powerful power source	

A circuit must be complete, with all parts connected to work. It also needs a power source.

Draw what you think a circuit with one battery and one bulb would look like.

This is what it would look like.



Now add a switch to the circuit, and a buzzer.

Consider your house and the electrical items in it, what circuits are there and what are they used to power? Can you draw any?

Circuits

Fill in the missing words

loop

complete

energy

path

negative

positive

electricity

A circuit is a _____ that allows _____
to pass through it.

Electricity always travels from the _____
to the _____.

A circuit will only work if it is _____. This
means it must make a complete _____, otherwise the
electrical _____ cannot flow.

Draw arrows on the diagram to show which way round the electricity is flowing.

