

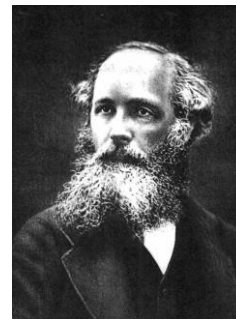
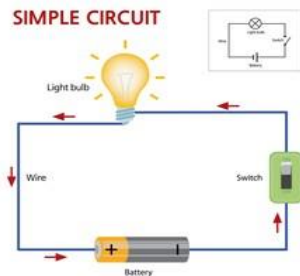
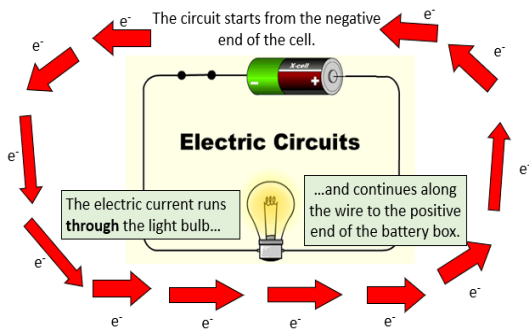
What would life be like without electricity?



To construct a simple circuit, we need...



...an electrical cell... ...a light bulb... ...electrical wires and crocodile clips.



James Clerk Maxwell is one of the most important scientists of all time. His research into electromagnetic radiation brought about many of the things we know today like television, mobile phones, radios and infra-red telescopes.



Hertha Marks Ayrton was a British physicist who was the first woman nominated to become a fellow of the Royal Society. She worked on her husband's experiments on electrical arcs writing her own paper on the subject and becoming the first woman to become a member of the Institution of Electrical Engineers in 1899.

Key Vocabulary

Electrical Circuits	A closed path made of components that allows electricity to flow.		Supply	electricity supply from power stations to households.
Battery	A device that stores chemical energy and transfers it into electrical energy.		National Grid	distributes electricity across the country connecting power stations to homes, workplaces and public buildings all around the country.
Switch	A device that is used to turn the flow of electricity on or off in a circuit.		Buzzer	An audio signalling device that sounds when the circuit is complete.
Generator	A machine that makes electrical energy.		Dependent	Require the support of.
Series Circuit	A closed circuit where the current follows one path and has no choices of route.		Function	Activity or purpose of an object.
Conductor	Allows electricity or heat to pass through it.		Current	Rate of flow of electrical charge around a circuit. Measured in Amps.
Insulator	Will stop electricity or heat from passing through it.		Rely	To depend on something.
Components	Any basic device used in a circuit.		Power	A measure of how fast electrical energy is turned into another type of electrical energy, such as heat or light.
Bull	Lights up when current passes through it.			