

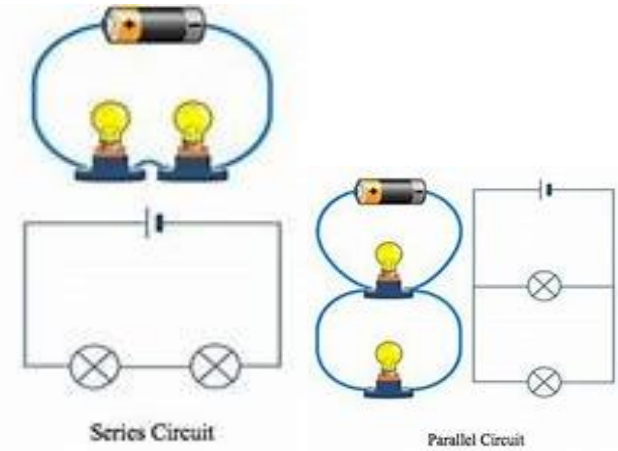


# Farnborough Primary School What would our lives be like without Electricity?

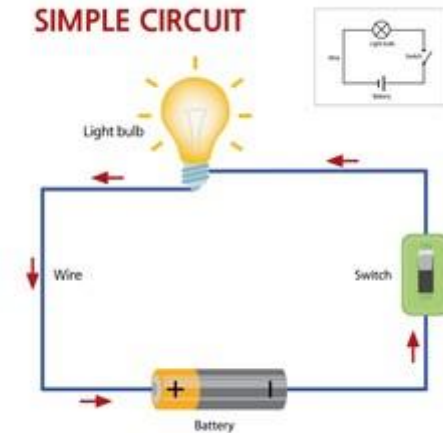
1. Electrical circuits	A <b>closed path</b> made of components that <b>allows electricity to flow</b> .
2. Battery	A device that <b>stores chemical energy</b> and <b>transfers it into electrical energy</b> .
3. Switch	A device that is used to <b>turn the flow of electricity on or off in a circuit</b> .
4. Buzzer	An <b>audio signalling</b> device that sounds <b>when the circuit is complete</b> .
5. Series Circuit	A <b>closed circuit</b> where the <b>current follows one path</b> and has no choices of route.
6. Conductor	<b>Allows electricity or heat to pass through it</b> .
7. Insulator	<b>Will stop electricity or heat from passing through it</b> .
8. Components	Any <b>basic device</b> used in a circuit.
9. Potential difference	Also known as <b>voltage</b> . Is the energy transferred to/from each unit of electrical charge in a circuit
10. Bulb	<b>Lights up</b> when current passes through it.
11. Voltmeter	A device used to <b>measure electrical potential difference</b> .

12. Current	<b>Rate of flow</b> of electrical charge around a circuit. <b>Measured in Amps</b> .
13. Ammeter	Device to <b>measure current</b> .
14. Electric charges	The <b>amount of electricity</b> running through a circuit.
15. Electrons	<b>Tiny negatively charged particles</b> that move in circuit.
16. Parallel circuit	A circuit where <b>current has choices</b> as to which way round it can go.
17. Resistor	A device that tries to <b>slow current down in a circuit</b> .
	<b>Hertha Marks Ayrton</b> 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.
	<b>James Clerk Maxwell</b> is one of the most important scientists of all time. His research into <b>electromagnetic radiation</b> brought about many of the things we know today like television, mobile phones, radios and infrared <a href="#">telescopes</a> .

## Some series and parallel circuits



## SIMPLE CIRCUIT



### Key

Year 3/4

Year 5/6

Secondary level