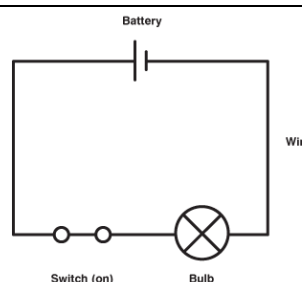
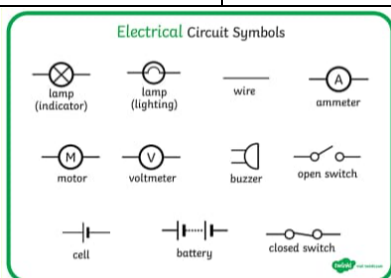




Science	Year 6
Focus: Electricity	
Age related scientific vocabulary	

voltage	Voltage is the difference in electrical energy between two parts of a circuit. It can be measured using a voltmeter and is measured in volts.
current	A current is an electrical flow caused when electrons move through a conductor and carry electrical energy from one place to another place. An electrical current flows through a circuit.
component	Everything you own that uses electricity will have an electric circuit. These circuits are made up of different electrical components. For example, batteries, switches, bulbs and buzzers.



Key Knowledge
<ul style="list-style-type: none"> Batteries are a store of energy. The energy pushes electricity round the circuit. When a battery's energy is gone it stops pushing. Voltage measures the 'push'. The greater the current flowing through a device the harder it works. A switch opens and closes a circuit Drawings of complex circuits can be simplified using symbols in circuit diagrams. The number & voltage of the cells in a simple circuit affect the brightness of bulbs, the loudness of buzzers or the speed of motors Series circuits are simple with components wired along a single wire. If one component fails the complete circuit is broken and so all components fail to work as they should. In parallel circuits the complete circuit is maintained by other connections and so the failure of one component doesn't stop the other components working normally.

Success Criteria	Pupil Reflection		Teacher Assessment
I can explain the importance of the major discoveries in electricity	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can use recognised symbols when representing a simple circuit in a diagram	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can observe and explain the effects of differing number and voltage of cells in a circuit	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can investigate the relationship between wire length and bulb brightness/loudness of buzzer—I can plan a fair test and decide how to collect evidence appropriately	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can communicate findings using scientific terminology and evaluate how my investigation could be improved	Before <input type="checkbox"/>	After <input type="checkbox"/>	