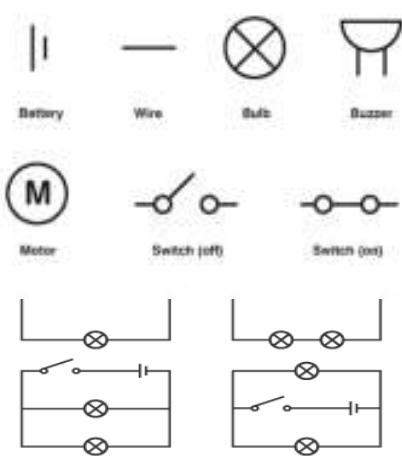







# Year 4 Autumn 1 Electricity

Learning objectives for this topic	Key vocabulary	Useful websites to search for
<p>Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</p> <p>Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery</p> <p>Recognise some common conductors and insulators, and associate metals with being good conductors.</p> <p>Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.</p>	<p><b>Battery</b> - A container consisting of one or more cells where chemical energy is converted into electricity and used as a source of power</p> <p><b>Bulb</b> - A glass bulb which provides light by passing an electrical current through a filament</p> <p><b>Buzzer</b> - An electrical device that makes a buzzing noise and is used for signalling</p> <p><b>Cell</b> - A device containing electrodes that is used for generating current</p> <p><b>Circuit</b> - A complete and closed path around which a circulating electric current can flow</p> <p><b>Conductor</b> - A material or device which allows heat or electricity to carry through</p> <p><b>Current</b> - A flow of electricity which results from the ordered directional movement of electrically charged particles</p> <p><b>Electricity</b> - A form of energy resulting from the existence of charged particles</p> <p><b>Filament</b> - A conducting wire or thread with a high melting point that forms part of an electric bulb</p> <p><b>Motor</b> - A machine powered by electricity that supplies motive power for a vehicle or other moveable device</p> <p><b>Switch</b> - A device for making and breaking the connection in an electric circuit</p> <p><b>Voltage</b> - An electrical force that makes electricity move through a wire, measured in volts</p>	<p>BBC Education Clips Electricity</p> <p>BBC Bitesize Electricity</p>
 		<h3>Key scientists and people</h3>  Nikola Tesla  William Gilbert  Benjamin Franklin  Thomas Edison

