



Science Topic Overview: Electricity		
Previous linked learning	I think I already know...	I would like to find out...
<p>Year 4:</p> <ul style="list-style-type: none"> - I can identify common appliances that run on electricity - I can construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers - I can 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 - I can recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple circuit - I can recognise some common conductors and insulators, and associate metals with being good conductors 		
<p>Key Vocabulary</p> <p><i>Cell, battery, switch, bulb, circuit, crocodile clips, complete circuit, conductor, insulator</i></p> <p>motor</p> <p>buzzer</p> <p>wire</p> <p>symbol</p> <p>bright</p> <p>dim</p> <p>mains electricity</p> <p>National grid</p>		
<p>By the end of this unit you will be able to....</p> <ul style="list-style-type: none"> - Explore battery and main electrical power, discuss how it reaches our homes and how to use it safely - Use recognised symbols when representing a simple circuit in a diagram - Compare and give reasons for variations in how components function, including the loudness of buzzers and the on/off position of switches - Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit - Investigate 'How are the amps in a circuit effected by components?' 		