



Topic Title: Electricity

Year Group: 6

Academic Year: 2022/2023

Science Intent:

To build on their work from Year 4 to construct simple series circuits to help them to answer questions about what happens when they change different components

Prior Scientific Learning/Linked Topics:	Literacy Links (including texts/media used):	Maths Links:
<p>Y4-</p> <ul style="list-style-type: none">• Identify common appliances that run on electricity• Construct simple series circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers• 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• Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit• Recognise some common conductors and insulators, and	<p>Writing investigations and drawing conclusions</p>	



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<p>associate metals with being good conductors</p>		
<p>Scientific Knowledge</p>	<p>Working Scientifically</p>	
<ul style="list-style-type: none"> • Associate the brightness of a lamp or the volume of a buzzer with a number and voltage of cells used in a circuit • Compare and give reasons for variations for how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches • Use recognised symbols when representing a simple circuit in a diagram 	<ul style="list-style-type: none"> • planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate • recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs • using test results to make predictions to set up further comparative and fair tests • reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations • identifying scientific evidence that has been used to support or refute ideas or arguments 	
<p>Content:</p> <ul style="list-style-type: none"> • The children will demonstrate their knowledge from Year 4 using components to build a complete circuit. • The children will use symbols to draw a circuit diagram. • Children will investigate the effect of increasing or decreasing the voltage on different parts of the circuit. • Children will plan and complete a scientific enquiry. 		
<p>Key Vocabulary: At the beginning of each topic, the children have the opportunity to explore, learn and understand the key vocabulary.</p>		



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Stunning Start/Marvellous Middle/Fabulous Finish:

OAA/Trips/Visits/Visitors: