

Year 4 Spring 2
STEM challenge (science investigators)

Week	NC objectives	REMEMBER (prior knowledge)	KNOW (new knowledge)
1 2 3 4 5 6	<p>- construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</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>☐ recognise some common conductors and insulators, and associate metals with being good conductors.</p> <p>☐ identifying differences, similarities or changes related to simple scientific ideas and processes</p> <p>☐ reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</p> <p>☐ using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</p> <p>LO: to know how to create a simple circuit using an output</p>	<ul style="list-style-type: none"> - How to be safe using electricity - identify and compare the suitability of a variety of everyday materials - know how to manipulate them to create desired outcome - know how to make conclusions from an experiment's results 	<ul style="list-style-type: none"> - Know how to construct a simple circuit - Know how to use different outputs within a circuit (buzzer, bulb) and control with a switch - Know how to explain observations using scientific vocabulary - Know how to present information and evaluate based on simple experiments

	<p>LO: to use scientific understanding to design a product</p> <p>LO: to build and construct using design</p> <p>LO: to test and evaluate designs</p> <p>LO: to present scientifically</p>		
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