Year4				
Торіс	Prior Learning	Present learning	Misconceptions	Future learning
<ul> <li>Electricity</li> <li>National Curriculum <ul> <li>Identify common appliances that run on electricity.</li> <li>Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.</li> <li>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.</li> <li>Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.</li> <li>Recognise some common conductors and insulators, and associate metals with being good conductors.</li> </ul> </li> </ul>	• Explore how things work. (Nursery - Electricity)	<ul> <li>Knowledge and Understanding-</li> <li>common appliances that run on mains and on battery</li> <li>-hazards/dangers of using electricity</li> <li>-how to remain safe while using electricity</li> <li>- switch helps to break the circuit</li> <li>-Know the difference between a conductor and an insulator, giving examples of each</li> <li>-what are dependent and independent variables in a fair test</li> <li>-Recognise some common conductors and insulators and associate metals being good conductors</li> </ul> Investigations: <ul> <li>-plan a fair test to find out how you can change the brightness of a bulb</li> <li>-plan a fair test to find out which materials can carry electricity( to sort conductors and insulators)</li> <li>-construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers Vocabulary: conduct hazard electricity electric current appliances mains cell</li></ul>	Some children may think: • electricity flows to bulbs, not through them • electricity flows out of both ends of a battery • electricity works by simply coming out of one end of a battery into the component.	<ul> <li>Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. (Y6 - Electricity)</li> <li>Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. (Y6 - Electricity)</li> <li>Use recognised symbols when representing a simple circuit in a diagram. (Y6 - Electricity)</li> </ul>