



Prior Learning	
This unit builds on from the Year 4 Electricity unit. Children will learn to represent circuits using symbols in a diagram. They will learn about two of the most important scientific inventors in the field of electricity – Thomas Edison and Nikola Tesla. Children will get the opportunity to develop their understanding of what electricity is and how to measure it. As well as conducting their own investigation, they will get the opportunity to create their own torch	
Key vocabulary for this unit	
Circuit, symbol, cell/battery, current, amps, voltage, resistance, electrons	
Learning Sequence	
It's electrifying!	I can explain the importance of the major discoveries in electricity.
Circuit symbols	I can observe and explain the effects of differing volts in a circuit.
Volts	I can observe and explain the effects of differing volts in a circuit
Electricity Investigation (Part 1)	I can plan an investigation. I can understand variations in how components function.
Electricity Investigation (Part 2)	I can conduct an investigation. I can record my data and report my findings
Electricity Investigation (Part 3)	I can investigate my results further.
Assessment milestones	
Working scientifically:	Scientific knowledge:
<ul style="list-style-type: none"> • plan an investigation based on the results of a previous investigation; • decide how to record data • explain how our understanding of electricity has changed over time; • decide which variables to control while planning an investigation; 	<ul style="list-style-type: none"> • know the main circuit symbols and use these to draw circuit diagrams; • draw circuit diagrams using the correct symbols and label the voltage correctly; • explain how major discoveries led to the widespread use of electricity;

- decide how to report their findings;
- make new predictions based on the previous results;
- select an appropriate scientific enquiry

- explain the effect of increasing or decreasing the voltage on different parts of a circuit;
- explain how they have ensured a high degree of trust in their results;
- identify variations in component function.