# Science Overview – Electricity

## **Year Six**

### **Autumn Term**

# **Key Question: What impact did WWII have on the World and society today?**

#### **National Curriculum**

- associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.
- 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.
- use recognised symbols when representing a simple circuit in a diagram.

## SUBSTANTIVE KNOWLEDGE

- 1) Know the components of a circuit and draw a circuit using the correct symbols.
- 2) Know what might impact the function of components.
- 3) Know what happens when more/less batteries are added to a circuit.
- 4) Know how to make bulb brighter and a buzzer louder.
- 5) Know how to make a bulb dimmer or a buzzer quieter.
- 6) Know what a series circuit is.

Key	circuit, symbol, cell/battery, current, amps, voltage, resistance, electrons
Vocabulary	*833301LI0000/
Previous year groups key vocabulary:	electricity, appliances, battery, circuit, cell, wires, component, mains electricity, electrical conductor, electrical insulator (This is vocabulary from Y4)
Disciplinary Concepts	<ul> <li>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.</li> <li>using test results to make predictions to set up further comparative and fair tests.</li> </ul>
Enquiry type to	Comparative and fair testing (enquiry type)
cover and	How does the voltage of batteries in a circuit affect the brightness/volume of a
enquiry suggestion	-lamp/buzzer?
Learning	I can
Milestones	<ul> <li>match a circuit component up with the correct symbol.</li> </ul>
	draw a circuit using the symbols.
/Assessment	describe what might happen to a circuit in different circumstances-
	switch open, two batteries present etc.