

By the end of	ELECTRICITY	PoS suggested
	Progression in Key Concepts	year
Key Stage 1	 Recognise that electricity can be dangerous Recognise that batteries produce electricity Recognise that electricity travels through wires 	Year 1 or 2
Key Stage 2	 Identify common appliances that run on electricity Construct a simple series electrical circuit, identifying and naming its basic parts, including cells (batteries), wires, bulbs, switches and buzzers Identify whether or not a lamp (bulb) will light in a simple series circuit, based on whether or not the lamp (bulb) 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 (bulb) lights in a simple series circuit Recognise some common conductors and insulators, and associate metals with being good conductors. 	Year 4
	 Associate the brightness of a lamp (bulb) or the volume of a buzzer with the number and voltage of cells (batteries) 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. 	Year 6
Key Stage 3	 Current electricity Recognise that electric current is measured in amperes Investigate series and parallel circuits: currents add where branches meet current as flow of charge Recognise that potential difference is measured in volts Compare battery and bulb ratings; Recognise that resistance, measured in ohms, is the ratio of potential difference (p.d.) to current Investigate differences in resistance between conducting and insulating components (quantitative). Static electricity Observe and describe the separation of positive or negative charges when objects are rubbed together: transfer of electrons, forces between charged 	Year 7, 8 or 9
	 objects <i>Investigate</i> the idea of electric field: forces acting across the space between objects not in contact. 	