

Scientific Questioning

Concept: Electricity

Year group	Key questions	Vocabulary
R	What is electricity? How can we keep safe around electricity?	Safe, switches, wires, electricity, power, lights, plugs
4	Can you identify common appliances that run on electricity? Can you construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers? Can you identify whether or not a lamp will light in a simple series circuit, whether the lamp is part of a complete loop with a battery? Can you recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit? Can you recognise some common conductors and insulators and associate metals with being good conductors?	Appliances, electricity, simple, series, circuit, cells, wires, bulbs, switches and buzzers. Loop, battery, conductors, insulators, switch, current.
6	Can you represent the symbols that feature within a circuit? Can you compare the functions of the different components in a circuit? What makes the brightness of a bulb and the volume of a buzzer vary?	Components, voltage, cells, symbols, parallel and series.