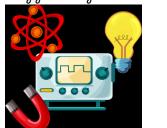
Year 4 – Electricity

What does a lightbulb need to light up?

Prior learning In Year 2, you have identified objects, which use electricity, and those that do not.	Future learning In Year 6, you will recognise symbols in an electrical diagram.
 In this unit you will: Identify common appliances that run on electricity Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers 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 Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit Recognise some common conductors and insulators, and associate metals with being good conductors 	
Key Scientist: Benjamin Franklin Image: Benjamin Franklin was an American inventor. Although he invented many things, he is most famous for inventing the lightning rod which is used to ground a lightning bolt. Science discipline: Physics	

Science discipline: Physics

Physics is a science that studies matter and its motion as well as how it interacts with energy and forces.



Scientific diagram	
Light	
Cell	
Battery	
Open switch	
Clased switch	
Motor	
Buzzer	
Voltmeter	

Vocabulary:

- Circuit: A camplete path around which electricity can flow.
- Switches: A component within an electrical circuit, which enables the flow of electricity to be turned on and off.
- Conductors: Made of materials that electricity can flow through easily.
- Insulators: A material, which does not easily allow heat and/or electricity to pass through it.
- Component: A part that combines with other parts to form something bigger.