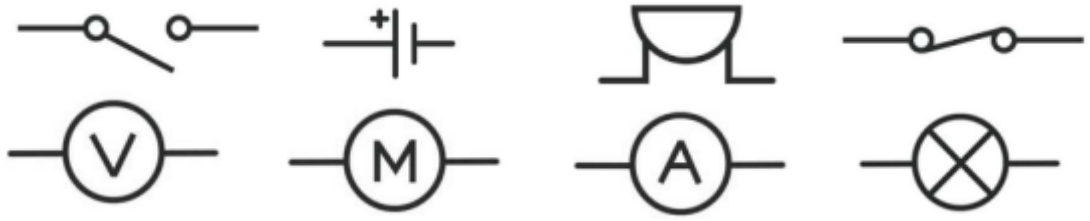
Brookfield Primary School Knowledge Organiser

Year 6: Science – Electricity

Science is the study of the world around us through observation, description, investigation and experimentation.

Key Facts:

- Adding multiple cells to a circuit can increase the voltage. This can increase the brightness of a bulb, volume of a buzzer or speed of a motor.
- Adding additional components has an effect on the circuit. Adding additional bulbs, for example, can result in dimmer bulbs, since voltage has to be shared between them.
- In a series circuit several components appear one after the other. If you follow the circuit diagram from one side of the cell to the other, you should pass through all the different components, one after the other, without any branches.
- In parallel circuits different components are connected on different branches of the wire. If you follow the circuit diagram from one side of the cell to the other, you can only pass through all the different components if you follow all the branches.



Where to look:

- BBC Bitesize
- Photographs
- Library

Things to find out about:

Consider how to add 2 switches onto the diagram so that they turn on and off separately.

General Scientific Words/Phrases:

Enquire, investigate, observe, explore, experiment, describe, record, analyse, compare, evidence, record

Key Vocabulary to use in this topic:

Word:	Definition:
Circuit	A compete path which allows electricity to flow.
Battery	A source of energy in an electrical circuit.
Electricity	A form of energy.
Conductor	Materials which allow electricity to flow through them easily.
Insulator	Materials that do not let electricity pass through them easily.
Dimmer switch	A light control which allows you to change the brightness of a light.
Signal	An electrical impulse transmitted or received.
Resistor	A component that reduces electric current flow.
Synchronised	Operating at the same time or rate.
Output	The amount of something produced (e.g., brightness of a bulb).
Variable resistor	A component which varies the amount of electric current flow.
Systematically	Working in a methodical way.