



Year 6 - Autumn - Science Knowledge Organiser

What I already know...


- Electricity can be dangerous.
- Conductors (such as some metals) allow electricity to pass through.
- Insulators do not allow electricity to pass through.
- Electricity comes from the mains or from batteries.
- A battery is needed for a circuit to work.

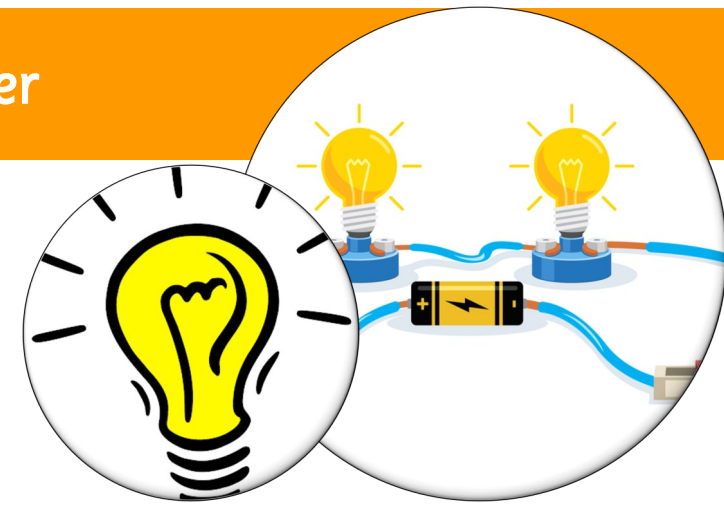


What I will learn...

- That there are two types of electricity; natural and man-made.
- The components of a circuit and their corresponding symbols.
- How electricity has impacted our lives.
- The effects of differing voltages in a circuit.
- How to create a series circuit.
- That if one part of a series circuit breaks, the circuit is broken and the flow of current stops.
- How to make a bulb brighter/duller.
- How to make a buzzer louder/quieter.

Key Vocabulary

Electricity	The flow of an electric current or charge
Generate	To make or produce.
Renewable	A source of electricity that will not run
Non-renewable	A source of energy which will eventually
Appliances	A piece of equipment or a device
Battery	A device that stores electrical energy as
Circuit	A pathway that electricity can flow
Electrons	Small particles with an electric charge.
Current	The steady flow of electrons.
Symbol	A visual picture that stands for 
Amps	How electrical current I measured.
Voltage	The force that makes the electric current
Resistance	The difficulty that the electric current has



Making a difference at The Merton

Whilst we learn the fundamentals of electricity and deepen our understanding, we will also consider the use of electricity in our daily lives and how electricity has, and continues, to change the world in which we live. We will learn about the benefits but also the hazards of electricity to allow us to be safe citizens. Whilst exploring the differences between renewable and non-renewable sources of energy, we will learn to be more conscientious about our environment. This will enable us to make informed decisions for the future as we strive to move towards a more eco-friendly world.

Making a difference at home

How many electrical devices do you have at home?

Are they mains or battery powered?

How does electricity help you and your family in and around home? Think about how it helps you with jobs, how it makes your life easier and how it helps to entertain you.