



Year 4 - Spring - Science Knowledge Organiser

What I already know...

This will be the first time that children have learnt about electricity in school.

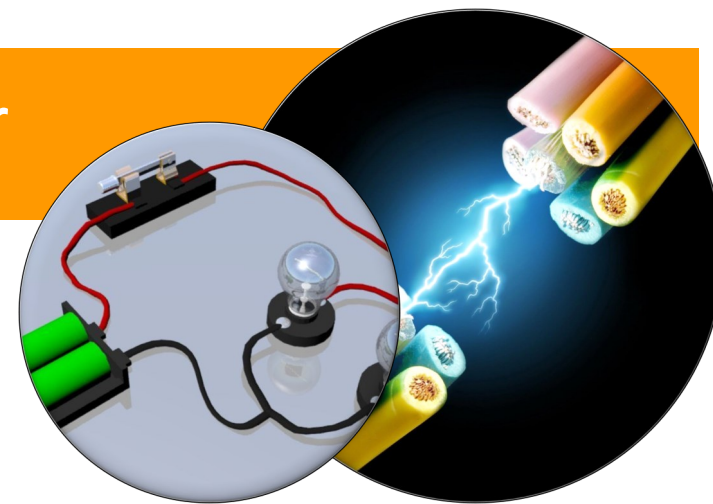
Most children will already know that batteries store energy, electricity travels down wires and switches turn things on and off.

Key Vocabulary

battery	A container consisting of one or more cells in which chemical energy is converted into electricity.
Mains electricity	The electricity which is delivered to homes and businesses.
Electrical conductor	A material which allows electricity to travel through it.
circuit	A closed path that allows electricity to flow from one point to another
cell	A power supply that uses chemical energy to make electricity.

What I will learn...

- How to make sure everyone is safe when using electrical items.
- How to create a circuit using a battery, wires, switch and bulb, motor or buzzer.
- The difference between mains and battery operated appliances..
- How to identify some materials which conduct electricity and some items which do not conduct electricity.
- How to make a circuit which matches a diagram.
- How a switch works and be able to make our own functioning switch.



Making a difference at The Merton

We will learn about the impact electricity has on our lives. We will learn about early scientists who discovered electricity and the inventions they created.

Children will learn how to use electricity safely and some of the consequences of not being careful when working with or using electrical appliances.

They will use their scientific learning in Design and Technology to help them to design, make and evaluate an electrical product.

Making a difference at home

With a grown up, look at how many electrical items are in your home (don't try to count them - I bet there will be a lot!) Can you guess how they work?

Use your learning from school to check that electricity is used safely in your home.