

Year 4 - Summer: Science Knowledge Organiser - Electricity

What I already know...

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

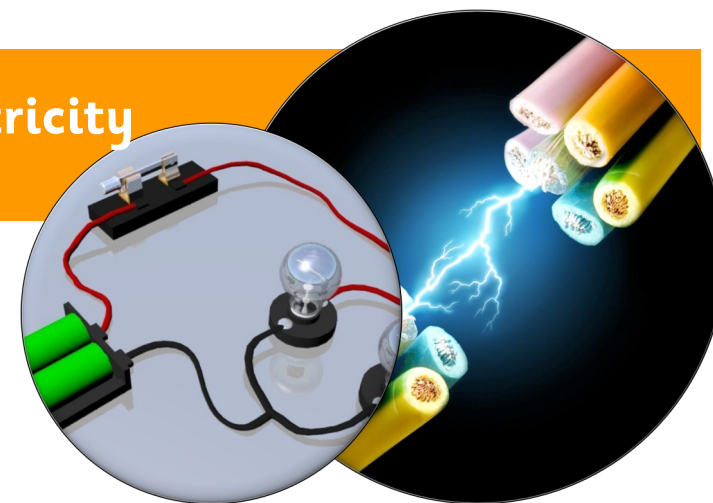
They will build upon their general knowledge of batteries storing energy, electricity travelling down wires and switches turning things on and off.

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.
- To make a circuit which matches a diagram.
- How a switch works and be able to make their own functioning switch.



Making a difference at The Merton & beyond

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 such as a torch.

Science skills I will learn:

Working Scientifically:

- Asking relevant questions and using different types of scientific enquiries to answer them
- Setting up simple practical enquiries, comparative and fair tests
- Recording findings using simple scientific language, drawings, labelled diagrams
- identifying differences, similarities or changes related to simple scientific ideas and processes