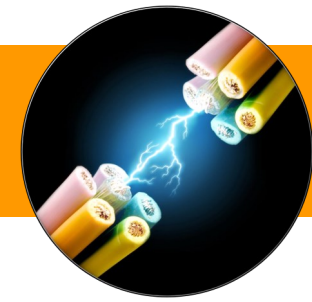




# Year 4 - Spring 2 - Science Knowledge Organiser - Electricity



## 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 conductor 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 to help protect a rabbit from predators.

## How to be a scientist:

Disciplinary Knowledge: skills I will learn...

- To ask relevant questions and use different types of scientific enquiries to answer them
- To set up simple practical enquiries, comparative and fair tests
- To make systematic and careful observations and take accurate measurements
- To gather, record, classify and present data in a variety of ways to help answer questions
- To record findings using simple scientific language, drawings etc.