Year 4 - Electricity (Physics)

Working Scientifically Focus: Asking questions and making predictions

Prior learning:

Nursery

- Explore how things work.

In this topic, we are learning to:

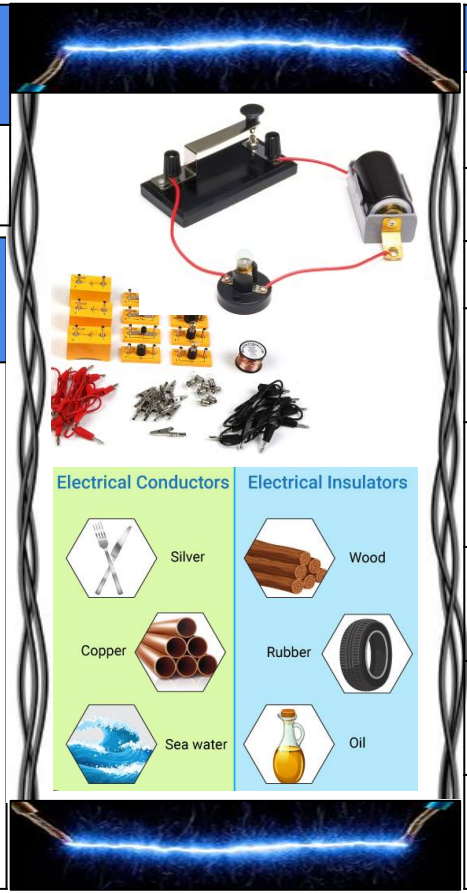
- We are learning to understand what electricity is and how an electrical circuit works.

-We are learning to identify common appliances that run on electricity and construct a simple series electrical circuit.

-We are learning to construct a simple circuit and name the parts.

-We are learning to recognise and investigate the different components in a circuit.

-We are learning to name some conductors and insulators and explain what they are.



Key Vocabulary:

Electrical current	the steady flow of electrons.
Cell	provides power to the circuit.
Circuit	a path for electricity to move through.
wire	a long, thin and flexible piece of metal.
bulb	a small and simple light source that uses a wire filament which glows with the application of electricity.
switch	Electrical component used to turn on and off any electrical equipment.
insulator	a material which does not easily allow heat and/or electricity to pass through it.
conductor	a material which does not easily allow heat and/or electricity to pass through it.

Questions you will know the answers to...

What is electricity?
What common appliances use electricity?
How does a circuit work?
Can I make my bulb brighter or my buzzer louder by changing my circuit?
What does a switch do?
What is a conductor and an insulator?

Working Scientifically Assessment Focus: Asking questions and making predictions

We ask relevant questions and choose the appropriate scientific enquiry to answer them.

We consider our prior scientific knowledge, previous experiences and observations when asking questions.

With minimal support, we are starting to decide how to collect information to answer our question, using different resources, scientific enquiries and data collection methods to help us.

We use our scientific knowledge from previous experiences and observations to predict what will happen next and explain our thinking.