

SCIENCE KNOWLEDGE ORGANISER

What is electricity and why is it important in our lives?

REMEMBERING



In Year 2, you looked at everyday materials and grouped different materials based on their properties. In this unit, we are going to be looking at materials that can conduct and insulate electricity.

UNDERSTANDING



There are many common household appliances that run off of electricity such as a fridge, a light bulb and a washing machine.



Electricity

UNDERSTANDING



An electrical circuit needs two wires, a source of electrical power and a bulb or a buzzer.



Cell



Battery

UNDERSTANDING



An electrical circuit needs to be connected to the battery by the wires for the electrical current to run through and light the bulb or sound the buzzer.

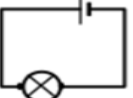


Circuit

UNDERSTANDING



A switch can open and close a circuit.

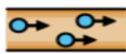


Circuit

UNDERSTANDING



Metals are good conductors of electricity.



Conductor

APPLYING



Challenge yourself to create a circuit with more than one buzzer, or bulb, or more than two wires. What impact does it have? Why?



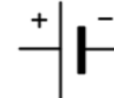
Circuit

KEY VOCABULARY



Electricity

Electricity is an energy that can be used to power electrical items such as toasters, fridges, light bulbs, washing machines and televisions.



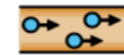
Cell

Something used in an electrical circuit to generate electricity.



Battery

A battery is more than one cell together connected together to generate electricity.



Conductor

A conductor is a material that lets electricity pass through it.



Insulator

An insulator is a material that does not let electricity pass through it.



Circuit

A circuit is a complete path that electricity can flow through.

