

# Science - Electricity

Year 4  
Summer 2

## Overview

In this topic we will be investigating electricity. We will consider which common appliances run on electricity. We then identify electrical conductors and electrical insulators. We will investigate how electrical circuits work and what would prevent them from working.

## Key Vocabulary

Word	Definition
Electricity	A form of energy used for lighting, heating, making sound and making machines work.
Bulb	The glass part of an electric lamp, which gives out light when electricity passes through it.
Battery	A container of one or more cells in which chemical energy is converted into electrical energy and used as a source of power.
Cell	A single unit used for converting chemical or solar energy into electricity.
Circuit	A complete route which an electric current can flow around.
Switch	A small control for an electrical device which you use to turn the device on or off.
Conductor	Material that allows electricity to pass through.
Insulators	Material that does not allow electricity to pass through it.
Electrical appliance	A machine or device that runs on electricity.

## **Conductors**

Some materials let electricity pass through them easily. These are known as electrical conductors. Many metals are good electrical conductors, such as iron, copper and steel.



## Key knowledge

- Identify common appliances that run on electricity.
- Recognise that a switch opens and closes a circuit.
- Know how to construct a simple series electrical circuit.
- Understand that electricity sources can be mains or battery.
- Recognise some common conductors and insulators.

