

What we already know
See KS1 Knowledge organiser

What's next
See KS3 Knowledge organiser

Golden Concepts

Asking scientific questions

Planning an investigation

Collecting, presenting and interpreting data

Errors and uncertainty

Science in our world

Key Vocabulary

Circuit	A circuit is a way of transferring electrical energy to power other things
Electrical Components	A part of a circuit that uses electricity to make something happen
Switch	A component which allows the flow of electricity to be turned on and off
Bulb	A component that transfers electrical energy into light energy
Wire	A long thin piece of metal used to transfer electrical energy
Battery	A battery stores chemical energy, it can be used to power different devices
Electrical Insulator	A material that does not allow electrical energy to pass through it
Electrical Conductor	A material that allows electrical energy to pass through it
Circuit symbol	A simple drawing used to represent a component
Current	The flow of electricity around a circuit

Electricity KS2 Knowledge Organiser

Circuit Basics:

- Introduction to the concept of a circuit as a closed loop for the flow of electric current.
- Identifying and naming the basic components of a simple circuit.

Simple Circuit Construction:

- Hands-on activities where students create simple circuits using components like batteries, wires, bulbs, and switches.
- Understanding the role of each component in the circuit.

Symbols and Diagrams:

- Introduction to basic circuit symbols used in diagrams.
- Drawing and interpreting simple circuit diagrams.

Conductors and Insulators:

- Recognizing materials that conduct electricity well (conductors) and those that do not (insulators).
- Simple experiments to explore conductivity.

