

Golden Concepts

Asking scientific questions and making observations

Planning an investigation

Collecting, presenting and interpreting data

Errors and uncertainty

Science in our world

Key Vocabulary

Current	The flow of electrical charge around a circuit
Voltage	The amount of energy that moves from battery to component
Charge	Charge is a property of all matter, it can be positive or negative
Electrons	Electrons are part of an atom, carry a negative charge
Series	A series circuit has all the parts connected in one loop
Parallel	In a parallel circuit the components are connected in different branches
Components	Components are the parts of the circuit. E.g. battery, bulb.
Ammeter	A piece of equipment used to measure the current in amps
Voltmeter	A piece of equipment used to measure the voltage in volts
Amps	The unit of current (A)
Volts	The unit of voltage (V)

Electricity 7 - Knowledge Organiser

Introduction to Electricity:

- Basic concepts of electric charge.
- Understanding the role of electrons in electricity.

Circuits:

- Simple circuits and circuit diagrams.
- Components of a circuit (e.g., bulbs, switches, batteries).
- Series and parallel circuits.

Current and Voltage:

- Introduction to electric current and voltage.
- Measurement units (amps, volts).
- Students should begin to understand the term resistance

Safety:

- Basic electrical safety precautions

Electrical Symbols:

- Using symbols to represent electrical components in circuit diagrams

