

Recapped Knowledge and Vocabulary

circuit

wires

switch

battery

cell

electricity

bulb

Some common appliances run on electricity.

Television

Toaster

A circuit must create a full loop in order for it to work.

Any breaks in the circuit will stop the circuit working.

Buzzer

Conductors allow electricity to pass through.

Insulators do not.

Working Scientifically

Draw circuit diagram.

Design your own investigation.

Collect and analyse data to answer a question.

Use a datalogger.

To research how scientific ideas related to electricity have developed over time.

New Vocabulary

Circuit	A loop of wires with at least one cell to provide voltage to move the electrons.
voltage	A measure of the push from the cell, battery or mains plugs sockets (3v, 9v, 230v)
symbol	An image to represent an object.
Circuit diagram	A scientific drawing that uses symbols in a rectangular form to show the components of a circuit.

New Knowledge:

Use recognised symbols when drawing circuit diagrams.

Scientific Circuit Symbols Mat

normal brightness

With more voltage, a single bulb will glow more brightly because the current flowing around the circuit has increased.

A buzz will be louder. A motor will spin faster.

Electricity Safety

X

Don't touch wires.

X

Don't put your fingers in sockets.

X

Don't fly kites or climb trees near power lines.

X

Don't use electronics near water.

Always follow this safety advice.

Mains electricity has a voltage of 230v.

This is enough to kill or seriously hurt you.