Electricity

Key Knowledge

- A series circuit is one where all components are connected in a continuous loop.
- Each component in a circuit diagram is represented by a circuit symbol.
- Current is the flow of electricity in a circuit. Voltage causes the current to flow.
- Current does not flow in an incomplete circuit.
- For a circuit to be complete, all components must be connected by wires and the switch must be closed.
- An incomplete circuit may have a break in the wires, an open switch or a cell not connected properly.
- The more components there are in a circuit, the dimmer the bulbs and quieter the buzzers.

Key Vocabulary

series circuit
cell/battery
bulb/lamp
current
voltage
complete circuit
incomplete circuit
switch
buzzer
independent variable
dependent variable
controlled variables
repeatability
accuracy
evaluate

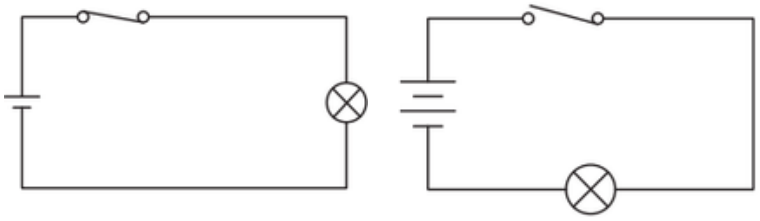
Our enquiry question:

What affects the performance of components in a circuit?

Working Scientifically Skills

Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.

Complete or incomplete circuit?



Our Learning Journey

- Draw and construct simple circuits
- Identify the difference between complete and incomplete circuits
- Explore variations within circuits
- Plan a scientific enquiry linked to the enquiry question
- Conduct an investigation linked to the enquiry question
- Evaluate the investigation

