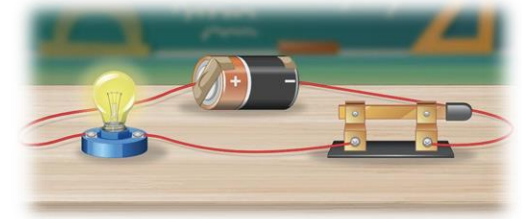


Enquiry Question
 How do changes in an electrical circuit impact its ability to function?

Electricity

WS: Comparative & Fair Testing



What do I already know?

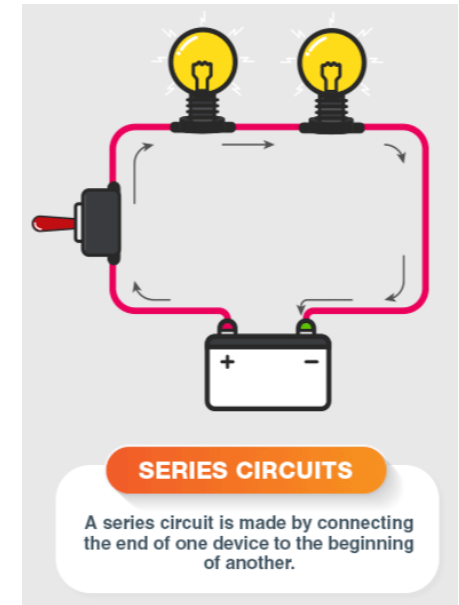
Science: Electricity - Year 4

You have...

- Identified common appliances that run on electricity.
- Constructed a simple series electrical circuit, identifying and naming its basic parts.
- Identified whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.
- Recognised that a switch opens and closes a circuit.

Key Learning Steps

1. How can we represent a simple circuit in a diagram?
2. How does the number of batteries affect the brightness of the bulb?
3. What else impacts the brightness of a bulb in a circuit?
4. What can impact the function of a component in a circuit?



Our Unit Experts

Beyond Living Memory

Nikola Tesla (1856- 1943)

Serbian inventor famous for contributions to the AC

Within Living Memory

M. Stanley Whittingham (1941-)

British chemist & Nobel

Sticky Knowledge

1. I can identify the symbols used within a simple series circuit diagram.
2. I can explain ways to modify a simple series circuit e.g. make a buzzer louder.
3. I know that the brightness of the bulb is impacted by the voltage cells used in the

symbol - an image is used to represent an object.

series circuit - a single pathway through which electricity can flow.

battery - used to store chemical energy and used to power a series circuit.

voltage - a measure of how strong the current is in a circuit

device - something that has been made to do a task

cell - an electrical power supply

component - a basic part in a circuit that uses electricity to make something happen e.g. buzzer.

diagram - a pictorial representations that is clearly labelled.