

What I Need to Know: Y4 Science - Electricity

We nurture the curiosity to learn, the courage to lead and the compassion to care.

We are learning about electricity. By the end of this unit, you will know about simple circuits and the electrical components within them.



Create, Communicate & Evaluate

- Investigate how electrical components can change within a circuit and communicate findings using the correct scientific vocabulary



Question, Reason, Discuss & Explain

- Explore and recognise common conductors and insulators
- Construct simple series electrical circuit, identifying its basic parts, (cells, wires, bulbs, switches, buzzers)
- Make predictions about electrical circuits
- Identify 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
- Predict if a lamp will light in a simple series circuit



Know & Do

- Recognise common appliances that run on electricity and understand electrical safety
- Learn about electrical components in a circuit
- Recognise that a switch opens and closes a circuit

Vocabulary I need to know...

Electricity, electrical appliance/device, mains, plug, electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol

Opportunities to support English and maths

- Skim and scan texts to retrieve information or quotes quickly and accurately
- Summarise main ideas from more than one paragraph
- Make and justify inferences with appropriate evidence from the text
- Provide reasoned justifications for their views, quoting evidence from across a text

Curriculum Links and Enrichment Activities

- Write Stuff English – Nikola Tesla