

What I Need to Know: Y6 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 the electrical components within circuits and be able to create a circuit for a specific purpose.



Create, Communicate & Evaluate

- CCE Create a circuit for a specific purpose (eg burglar alarm, traffic lights)



Question, Reason, Discuss & Explain

- Associate the brightness of the lamp or the volume of the buzzer with the number and voltage of cells used in the circuit
- Compare and give reasons for the variation in how components function eg the brightness of bulbs, loudness of buzzers and the on/off position of switches
- Explore how insulators and conductors are used within circuits



Know & Do

- Use recognised symbols when representing a simple circuit in a diagram
- Know basic components of an electrical circuits, some common insulators and conductors
- Build a basic electrical circuit

Vocabulary I need to know...

circuit diagram, circuit symbol, voltage

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 (from Y5)

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

- Link to Hazard Alley. Create a circuit for a specific purpose (eg burglar alarm, traffic lights)