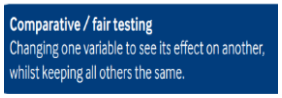
HOLY NAME CATHOLIC VOLUNTARY ACADEMY

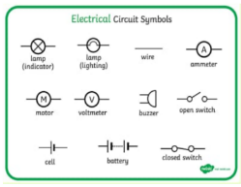
Year 6 Science

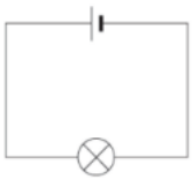
How does electricity work and how are things

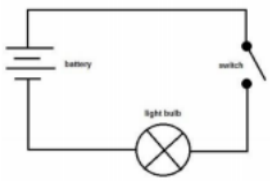
Retrieval	New Learning
• I can identify common appliances that run on electricity and their precautions. • I can construct a simple series circuit, identifying/naming its basic parts, including cell, wire, bulb, switch and buzzer. • I can recognise how the brightness of the bulb is affected by different factors. • I can recognise that a switch opens and closes a circuit and associate this with whether a lamp lights in a simple series circuit. • I can recognise some common conductors and insulators. • I can recognise how electricity is generated.	• Can you associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit? (WS1, WS2, WS3, WS4, WS5) • Can you compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches? (WS1, WS2, WS3, WS4, WS5) • Can you use recognised symbols when representing a simple circuit in a diagram? (WS1, WS2, WS3, WS4, WS5) • Can you explain how electricity is generated? (WS6, WS7, WS8)

Key Vocab	Definition	Science Skills
Series Circuit	A series circuit is one that has more than one resistor, but only one path through which the electricity (electrons) flows.	  
Voltage	A measure of the difference in electrical	
Cells	A device that is used to generate electricity, or one that is used to make chemical reactions possible by applying electricity.	
Component	A part of something (a part of a circuit) Conductor Materials that let electricity pass through them easily.	
Current	A flow of electricity through a wire or circuit	
Device	An object that has been invented for a particular purpose	
Fuse Safety devices	A strip of wire that melts and breaks an electric circuit if it goes over a safe level	
Generator	A machine that converts energy into electricity	
Motor	A device that uses electricity or fuel to produce movement	
Source	Where something comes from	
Turbine	A machine that creates continuous power in which a wheel, or something similar, moves round and round by fast moving water, steam, gas or air.	

Circuit Diagram

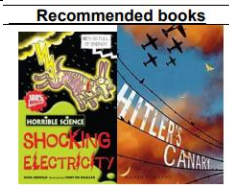






Beyond the Curriculum

Recommended books





Find out how electricity is made!
https://www. drax.com/power-generation/how-electricity-is-made/



Caring for God's gifts
Stewardship



Showing we care
Solidarity