

Holy Family Catholic Primary School Cronton



		Year	6:	Science	autumn	term :	L
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What I should already know:

I know some common appliances that run on electricity.

I know how to construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.

I know 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. I know that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.

I know some common conductors and insulators. and associate metals with being good conductors.

Fact File

Electricity is **generated** by:

burning fossil fuels such as coal, gas and oil biomass energy – burning wood chipand domestic and commercial waste nuclear reaction movement of water – tidal flow, wavemotion, falling water solar energy wind energy

Unit: Danger! Low voltage

What I will know by the end of the unit:

I can associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.

I can 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.

I can use recognised symbols when representing a simple circuit in a diagram.

Key Scientist

Nikola Tesla (1856-1943) was a Serbian-American electrical and mechanical engineer. He was a prolific inventor and engineer who made big strides in the areas

of electricity, radio and X-rays.

Without Tesla's development of a type of electrical circuit (AC) we would not have electric lights in our homes.



How does a circuit work? In a series circuit all the

components are joined together and the electricity can only flow in one direction - You must learn the different symbols for the different components. Switches can be used to openand close circuits.

Theme: Electricity

	THEME:	city		
	Vocabulary			
f	Amps	A measurement for the movement of electrons through a circuit.		
	Battery	Provides power for electrical items e.g. mobile phone torch.		
	Cell	A synonym for battery.		
	Circuit	A full journey which an electric current flow around.		
	Current	Electricity flows through a wire or acircuit.		
	Electrons	Small pieces of matter and energy flowing around a circuit.		
	Fossil fuels	Are natural fuels such as coal or gas.		
	Resistance	The measure of the difficulty electrons have in flowing through amaterial.		
	Symbol	A picture which represents or shows a component in a circuit.		
	Terminal	The + (positive) and - (negative) ends of the battery.		
	Voltage	electric current appliedto a circuit measured in volts.		
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Circuit diagrams

