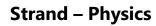


Leamington Primary Science Knowledge Organiser Year 6 – Electricity





What I should already know	What I will learn How has electricity impacted lives? Electricity is an energy. This energy can be used to	Important words to help me. (vocabulary)		Ideas for Scientific Enquiry
• common appliances that				
run on electricity. • construct and	power electrical items such as toasters, kettles, cookers, televisions and computer tablets.	electricity	A form of energy resulting from the existence of charged particles	Pattern Seeking
draw with labels a simple series	Electrical energy is caused by electrons (the particles in atoms) moving about to make a	electrons	Very small particles that travel around an electrical circuit	Investigation into variations of how components function
electrical circuit • whether a lamp	current. It is measured in amps.	electric current	A flow of electricity which results from the ordered directional movement of electrically charged particles.	Fair/Comparative Test
with light up as part of a simple circuit	What will make a bulb brighter or a buzzer louder? More batteries or a higher voltage create more	Carrent	Measured in amps.	Investigation into which
• explain that a power to flow through the circuit.	power to flow through the circuit. Shortening the wires means the electrons have	cell/battery	A device that stores energy as a chemical until it is needed. A cell is a single unit. A battery is a collection of cells	material is the best conductor of electricity
some materials are conductors and some are insulators	What affects the variations of how components function? Fewer batteries or a lower voltage give less power	voltage	An electrical force that makes electricity move through a wire, measured in volts	
 metals are good conductors 	to the circuit. More buzzers or bulbs mean the power is shared	circuit	A path that an electrical current can flow around	,
Interesting Facts	by more components. Lengthening the wires means the electrons have to travel through more resistance.	symbols	Circuit symbols are used in circuit diagrams to show how a circuit is connected together. Each component has a unique symbol	Wire
Electricity travels at the speed of light, about	Switches can be used to complete or break the circuit. These symbols are used to create electrical circuit	bulb	A glass bulb which provides light be passing an electrical current through a filament	
300,000km per second	diagrams:	buzzer	An electrical device that makes a bussing noise and is used to signalling	Switch (off) Bulb
Electric eels can produce strong		motor	A machine powered by electricity that supplies motive power for a vehicle or other moveable device	
electric shocks of around 500 volts	1'	switch	A device for making and breaking the connection in an electric circuit	
One flash of lightning could	Battery Wire Bulb Buzzer	component	A device within the circuit	
power 1000 houses for a whole year!	M - ~ ~ ~ ~			
1	Motor Switch (off) Switch (on)			