

Eversley Primary School– Knowledge Organiser



Science		Electricity		Year 6		6	Summer 2
Key Knowledge					Statutory Requirements		
Series Circuit	In order for electricity to flow, a circuit needs 3 things: a source of electricity, no gaps in the circuit and conductors. A series circuit has only one route for the current to take. If more bulbs or buzzers are added, the power has to be shared, therefore they will be dimmer or quieter. If just one part of this series circuit breaks, the circuit is broken and the flow of current				 Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit 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 Use recognised symbols when representing a simple circuit in a diagram 		
Brighter Bulb and Louder	stops. More batteries or a higher voltage create more power to flow through the circuit, increasing the brightness of the bulb and volume of the buzzer. Shortening the wires				Circuit	A path that flow aroun	t an electrical current can d.
Buzzer					Circuit diagram	A visual representation of an electrical circuit using symbols to represent the electrical components.	
Dimmer Bulb	0				Cell/ Battery	A device that stores energy as a chemical unit until it is needed. A c is a single unit and a battery is a collection of cells.	
and Quieter Buzzer	give less power to the circuit. More buzzers or bulbs mean the power is shared by more components, therefore the bulb will be dimmer and the buzzer will be quieter.				Switch	An electrical component that can make or break an electrical circuit. The force that makes electricity move through a wire.	
					Voltage		
Pictures and Diagrams					Bulb	A glass bulb which provides light by passing an electrical current through a filament.	
lamp (indicator)	lamp (lighting) wire				Buzzer	An electric buzzing so	al device that makes a und.
-1					Current	A flow of e	lectricity, measure in amps
buzzer	open switch closed switch		closed switch		Motor A machine that produces mot power for doing work.		-
-	⊣ ⊮ ⊣⊢ ⊐(Possible Experiences		
cell battery buzzer				 Design and make a set of traffic lights, a burglar alarm or another useful circuit. Investigate what happens when the voltage of the battery changes. Systematically, identify the effect of changing one component at a time in a circuit. Explain why this happens. Investigate what happens when the length of the wires changes. Use anmeters to measure the current in a circuit. 			