Year 6 Science Knowledge Organiser

Term: Summer I

Electricity

Key vacabulary		Significant scientist		Adding more cells to a circuit
battery	A device consisting of one or more	Nicholas Tesla (1856-1943)	Nicholas Tesla was . Serbian American engir	reer
cell	cells. A single electrical energy source.		and physicist. He inver the first alternating cur	
circuit	A complete path that an electric cur- rent can flow around. It flows from the battery, through wires and de- vices before returning to the battery. If the circuit is not complete the electric current cannot flow.		(AC) motor and develo AC generation and transmission technology worked for Thomas Ed when he first moved	ped I. He ison
circuit	A visual representation of an electri- cal circuit using symbols to repre-		New York.	
diagram	sent the electrical components.	Peter Rawlinson	Peter Rawlinson is a Br	itish
circuit symbol	A symbol used to represent various electronic components or functions in a diagram of a circuit.		engineer based in California. He is work on the development o	
switch	An electrical component that can make or break an electrical circuit. When a switch is open (off), there is a gap in the circuit and electricity cannot flow around the circuit.		electric vehicles, provid clear vision for a new generation product.	ling would also be brighter.
voltage	Volts are a measure of the energy of a flow of electricity. Mains electricity carries a voltage of 210-240 volts. A typical cell in school has 1.5 volts.	<u>Circ</u> i	uit symbols 	Adding mare bulbs to a circuit will make each bulb less bright.
Switch tur	ned This breaks the	battery	- I -	
off (open		wire		
	not complete	bulb	\otimes	
	and electricity cannot flow.	buzzer	$\overline{\mathbf{Y}}$	
	The bulb will turn off. from	motor	M	If we add a motor into the circuit with a single bulb, the bulb will be less bright.
$\lfloor \sigma $	each other.	switch		If we add more motors to the circuit, each motor will spin more slowly.