## SMRP Science Knowledge Organiser for Year 6 Term 4 Electricity



## Science Knowledge

## **Science Vocabulary**

A device used to generate elec-

Part of a circuit that does a job

Carry electricity around the cir-

In a **parallel** circuit, the current that flows is divided between each of the components

In a **series** circuit, the current that flows through each of the components is the same

An electrical force that pushes electricity around a circuit (measured in volts)

The flow of electricity around a circuit (measured in amps)

PARALLEL CIRCUIT DIAGRAM

Definition

cuit

tricity, e.g. battery

If the number of cells in a circuit increase, the brightness of the lamp or the volume of the buzzer increas- es, because the voltage in the circuit is greater.						Word
Components within a circuit will work if the circuit is not broken and there is a source of energy.						cells
The bulb will be brighter if you increase the	curre	ent by adding m	ore batteries or	having a batte	ery with a	
Adding more cells in a circuit will make the bulbs brighter. The bulb in circuit 2 will be brighter than in cir- cuit 1 and in circuit 3 will be brighter than in 1 and 2.						electrical compo- nent
circuit 1 circuit 2 circuit 3						electrons
						parallel Circuit
						series cir- cuit
Adding bulbs to a circuit will make each bulb dimme				voltage		
/hat does the lamp need to light up?		battery	-4-	Ŧ		
	cuit Svmbols	wire		-		current
		bulb	-8	)—	SIMPLE CIRC	
		buzzer	Ч	2		
al power supply, an electrical current flows om one metal contacts to the other – mak-		motor	-0	F		
els through the wires and the filament, the ilament heats up to the point where it begins o emit photons, which are small packets of		switch	Open switch	Closed switch		L