Knowledge Organiser Year 4 Science: Electricity

Tier 3 Vocabulary		
Electricity	The flow of an electric current through a material, e.g.	
	from a power source through wires to an appliance.	
Appliance	A piece of equipment or a device designed to perform a particular job, such as a washing machine or fridge.	
Cell/Battery	A device that stores electrical energy as a chemical.	
	A cell is a single unit. A battery is a collection of cells.	
Circuit	A pathway that electricity can flow around, based around	
	wires and a power supply.	
Components	Parts of a circuit.	
Mains electricity	Electricity supplied through wires to a building.	
Mains powered	Using mains electricity (from a socket).	
Battery powered	Using electrical energy from a battery.	
Conductor	A conductor of electricity is a material that will allow	
	electricity to flow through it.	
Insulator	Materials that are electrical insulators do not allow	
	electricity to flow through them.	
Current	The amount of electricity flowing around circuit.	

Components (parts) vocabulary		
Cell	Scientific word for battery – the power source in a circuit.	
Bulb	Lights up in a complete circuit.	
Buzzer	Makes a noise in a complete circuit.	
Wires	Connect the different components in the circuit, allowing electricity to flow around the circuit.	
Motor	Produces movement in a complete circuit.	
Switch	Used to turn other components in the circuit on or off.	

Types of circuits Complete Circuit Incomplete Circuit Series Circuit Electricity can flow. There is a break in the A circuit where the The components will circuit that prevents components are work. the electricity from connected in a loop. flowing. The **Electricity flows** through each components will not work. component in a single pathway.