Science | Electricity | Year 4

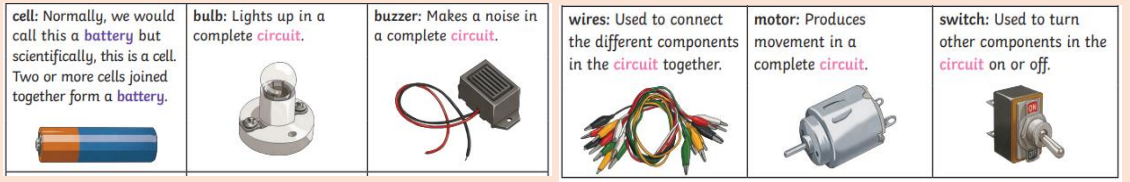
Key Vocabulary

WORD	DEFINITION
batteries	a pathway that electricity flows around
bulb	the glass case that contains the filament of an electric lamp
circuit	a pathway that electricity flows around
conductor	electrical conductors are materials which allow electricity to flow through them easily
control	manage the amount of something
current	the flow of electricity
electricity	energy that powers electrical appliances
hydropower	a process that produces electricity using the power of water
insulator	materials that do not let electricity pass through them easily
switch	a device which builds and breaks the connection in an electric circuit
voltage	the measure of electrical power
wind turbines	a device which produces electricity using the power of the wind

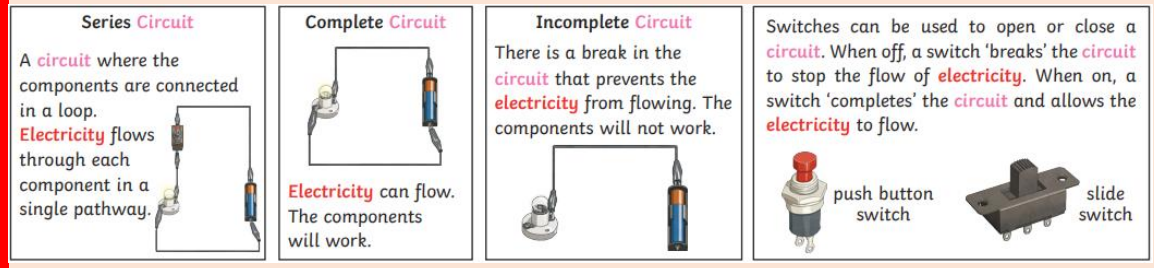
Key Knowledge

1. A circuit contains a battery (cell), wires and a component that requires electricity to work (bulb, motor or buzzer).
2. Electrical current flows through the wires from the battery (cell) to the bulb, motor or buzzer.
3. A switch can break or reconnect a circuit.
4. A switch controls the flow of the electrical current around the circuit. When the switch is off, the current cannot flow. This is not the same as an incomplete circuit.

Components



Circuits



• Materials that allow electricity to pass through to create a complete circuit are called **electrical conductors.**

• Materials that do not allow electricity to pass through and do not complete a circuit are called **electrical insulators.**