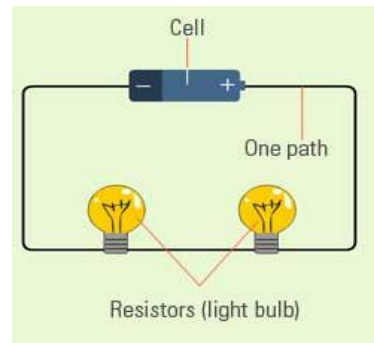


Electricity Year 4

Key Vocabulary	
Electricity	The flow of an electric current or charge through a material eg from a power source through wires to an appliance.
Appliance	A piece of equipment or device designed to perform a particular job such as a washing machine or mobile phone.
Generate	To make or produce
Renewable	A source of electricity that will not run out eg solar, wind, hydro.
Non renewable	A source of energy that will eventually run out so will no longer be able to be used to make electricity eg coal, oil, gas.
Cell and Battery	A cell is a device that stores electrical energy as a chemical. A battery is two or more cells.
Circuit	A pathway that electricity can flow around. It includes wires and a power supply (eg a cell) and may include bulbs, switches or buzzers.
Series Circuit	A series circuit is one that has more than one resistor, but only one path through which the electricity flows. All the components in a series circuit are connected end-to-end. A resistor in a circuit is anything that uses some of the power from the cell eg a bulb.
Electrical conductor	Electrical current can pass through them. Metals are good electrical conductors.
Electrical Insulator	Electrical current cannot pass through them. E.g. wood, plastic and glass.

A Series Circuit.

Electricity can only flow round a complete circuit that has no gaps. There must be wires connected to both the positive and negative end of the power supply (cell in this case).



A Switch

Switches can be used to open or close a circuit. When off, a switch 'breaks' the circuit to stop the flow of electricity. When the switch is on, the circuit is complete and electricity flows round the circuit. Light switches in a room are examples of switches.

