



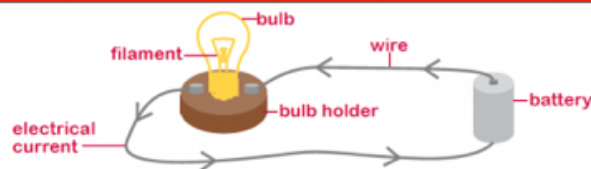
Year 6 - Electricity

Physics

Key vocabulary

battery	A container consisting of one or more cells where chemical energy is converted into electricity and used as a source of power.
bulb	A glass bulb which provides light by passing an electrical current through a filament.
buzzer	An electrical device that makes a buzzing sound and can be used for signalling.
cell	A device containing electrodes that is used for generating current.
circuit	A complete and closed path around which a circulating electric current can flow.
conductor	A material or device which allows heat or electricity to carry through.
current	A flow of electricity which results from the movement of electrically charged particles.
electricity	A form of energy resulting from the existence of charged particles.
filament	A conducting wire or thread with a high melting point that forms part of an electric bulb.
motor	A machine powered by electricity that supplies motive power for a vehicle or other moveable device.
switch	A device for making and breaking the connection in an electric circuit.
voltage	An electrical force that makes electricity move through a wire. It is measured in volts.

A Complete Circuit



Ways electricity is generated

Fossil fuel energy	Coal, oil and natural gas are fossil fuels. Burning them produces heat, which generates electricity.
Biomass energy	Biomass energy occurs when biomass (all living things and organic matter) is burned to heat water and produces steam which propels the blades of a turbine of a generator.
Nuclear energy	Energy that is created when atoms are either combined or split, creating heat and this is converted into electricity.
Solar energy	Power obtained by harnessing the energy of the sun's rays.
Wind energy	Electrical energy obtained from harnessing the wind with windmills or wind turbines.

Circuit symbols

Cell		Three-way switch	
Battery (2 or more cells)		Push switch	
Lamp		Resistor	
Buzzer		Variable resistor	
Motor		Wires	
Open switch		Where wires join	
Closed switch		Where wires cross	