

Key Vocabulary:

Appliance – A device or piece of equipment designed to perform a specific task e.g. Hoover, remote control

Battery – A small device where chemical energy is made 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 noise and is used for signalling

Cell – A device used to generate electricity. A battery is an example of a cell

Current – A flow of electricity through a wire

Series Circuit – A circuit that has one path for the electricity to flow through.

Conductor – A material or device which allows electricity to carry through e.g. metals are usually good conductors

Insulator – A material that does not readily conduct electricity e.g. plastic, wood, glass and rubber are good electrical insulators

Electricity – A form of energy supplied from power stations to households

Mains – An appliance that requires to be plugged in to work

Socket – A device on a wall that you plug electrical equipment into

Switch – A device for opening and closing the connection in an electric circuit

Voltage – An electrical force that makes electricity move through a wire, measured in volts

Wire – A long thin piece of metal that carries electricity. Often covered in plastic for safety



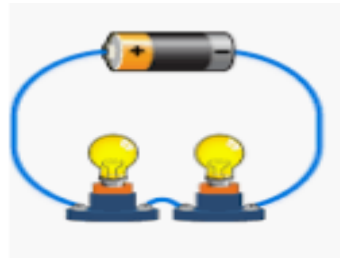
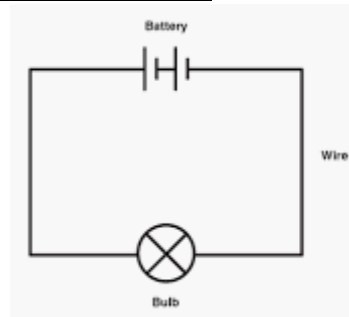
Holy Family Halewood Year 3 & 4 Science Electricity



Learning Objectives:

- Identify common appliances that run on electricity.
- Construct a simple series electrical circuit identifying & naming the basic parts of a simple electrical circuit, including cells, wires, bulbs, switches and buzzers.
- Identify whether or not a lamp will light in a simple series circuit based on whether or not the lamp is part of a complete loop with a battery.
- Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.
- Recognise some common conductors and insulators, and associate metals with being good conductors.

Series Circuit:

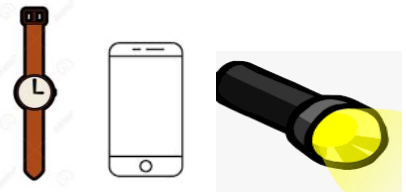


Appliances:

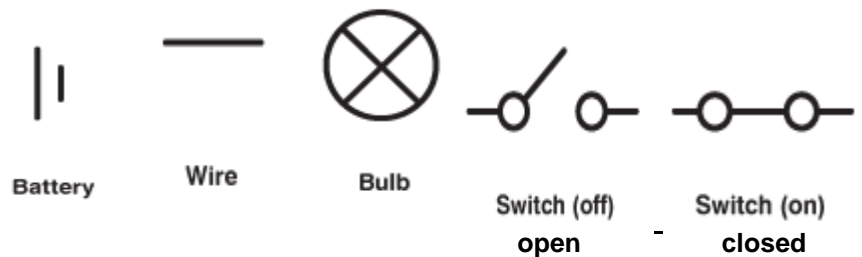
Mains:



Battery:



Symbols:



Conductors and Insulators:

Electrical Conductors	Electrical Insulators
Copper	Rubber
Iron	Wood
Steel	Plastic
Silver	Paper
Gold	