

## 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



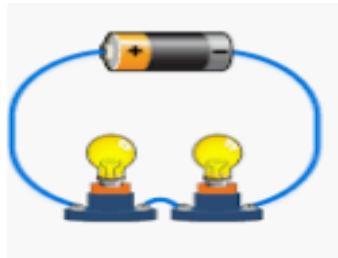
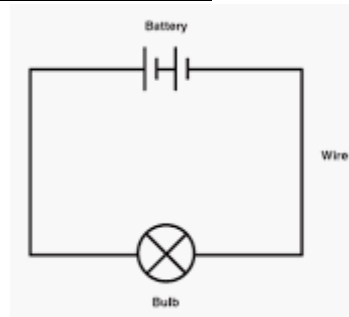
## Holy Family Halewood Year 3 & 4 Science Electricity



### 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:

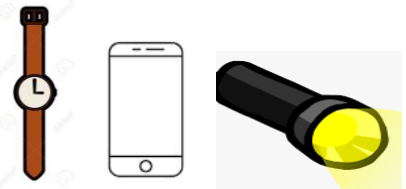


### Appliances:

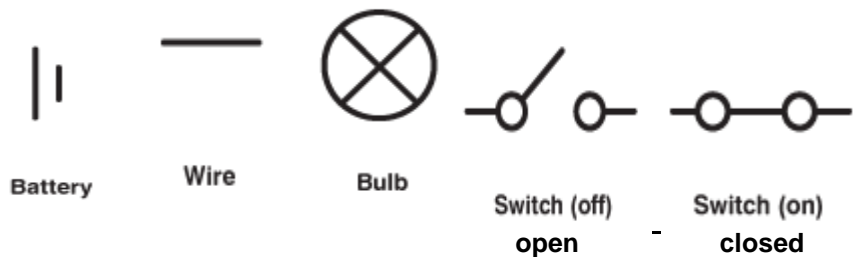
#### Mains:



#### Battery:



### Symbols:



### Conductors and Insulators:

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