

Electricity - Year 6 Knowledge organiser

Components of a circuit



Battery



Wire



Bulb



Buzzer



Motor



Switch (off)



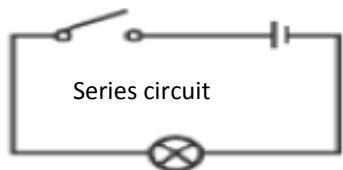
Switch (on)

What changes the components?

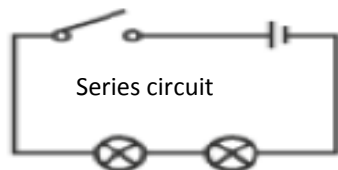
The brightness of a bulb or volume of a buzzer can be changed depending on the voltage or number of cells in the circuit.

The higher the voltage of the cells/more cells in the circuit, the brighter the bulbs or louder the buzzer will be.

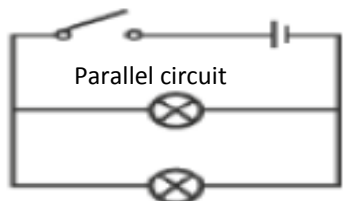
Circuits



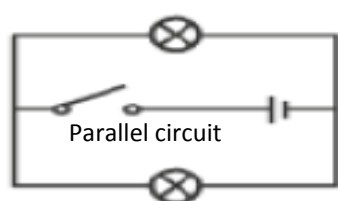
Series circuit



Series circuit



Parallel circuit



Parallel circuit

In a series circuit, all of the current flows through each part of the circuit.

In a parallel circuit the current is divided into separate

Key Vocabulary

Voltage

An electrical force that makes electricity move through a wire.

Switch

A device making and breaking the connection in an electric circuit

Current

A flow of electricity

Cell

A device containing electrodes used for generating current.

Conductor

A material that allows heat or electricity to carry through

Circuit

A complete and closed path that an electric current can circulate

Buzzer

An electrical device that makes a buzzing noise

Bulb

A glass bulb that provides light by passing an electrical current through it.

Open



Closed



If a switch is open, the circuit is not complete and the bulb not light nor will the buzzer sound.