

# Science Knowledge Organiser—Year 5/6 Cycle B

## Electricity



St Mary's &  
St Benedict's  
RC Primary School

	circuit
	battery
	electricity
	resistor
	variable resistor
	dimmer switch
	output
	systematically
	synchronised
	signal
	conductor
	insulator

### Circuit Symbols



Lamp



Ammeter



Switch



Voltmeter



Motor



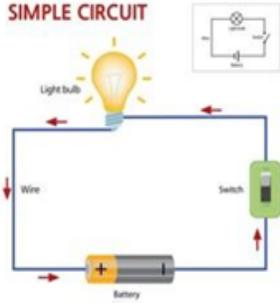
Battery



Buzzer

Wires are always drawn with a **straight line** using a **ruler** in scientific diagrams.

#### SIMPLE CIRCUIT

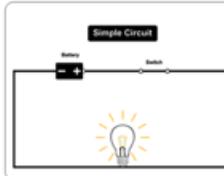


The **current** flows from negative to positive. There are no gaps - it is a **complete** circuit and the bulb lights up.

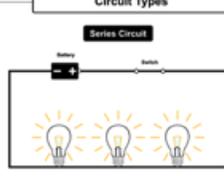
### Different Circuits

#### Circuit Types

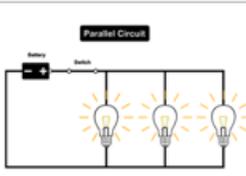
##### Simple Circuit



##### Series Circuit



##### Parallel Circuit

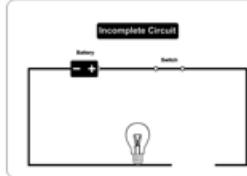




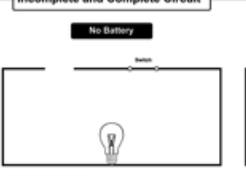
Adding more cells (batteries) to a circuit will make bulbs **brighter**, buzzers **louder** and motors **faster**.

#### Incomplete and Complete Circuit

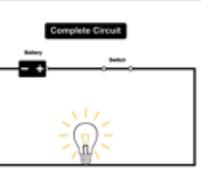
##### Incomplete Circuit



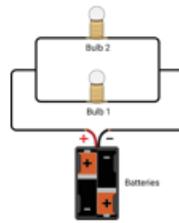
##### No Battery

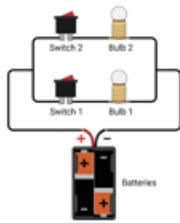


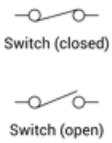
##### Complete Circuit



#### 2 Bulbs in Parallel







Switch (closed)

Switch (open)

Switches can be placed in a **parallel circuit**, so that 1 light can be turned on while another is off (just like in a house).