

Electricity (Y5&6)

knowledge

The words cells and batteries are used interchangeably.

Use recognised circuit symbols to draw simple circuit diagrams.

If you use a battery with a higher voltage, the same thing happens.

Adding more bulbs to a circuit will make each bulb less bright.

Using more motors or buzzers, each motor will spin more slowly and each buzzer will be quieter.

Adding more cells to a complete circuit will make a bulb brighter, a motor spin faster or a buzzer make a louder sound.

Turning a switch off (open) breaks a circuit so the circuit is not complete and electricity cannot flow. Any bulbs, motors or buzzers will then turn off as well.

Children do NOT need to understand what voltage is but will use volts and voltage to describe different batteries.

Subject Vocabulary

Amps

a unit of electric current

Volt/ voltage

measurement of batteries

circuit diagram

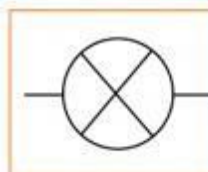
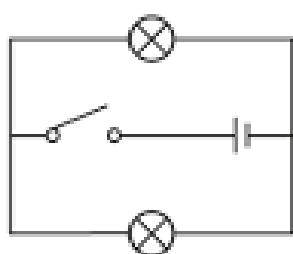
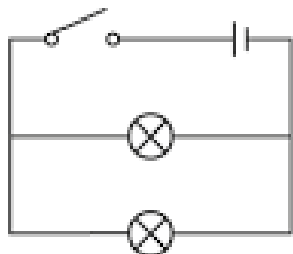
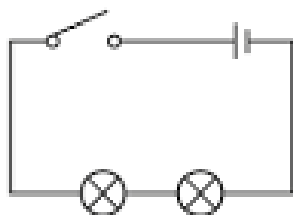
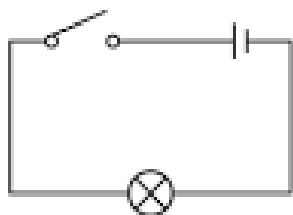
a drawn representation of an electrical circuit

circuit symbol

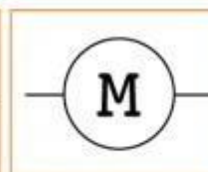
a picture used to represent various electrical devices

parallel circuit

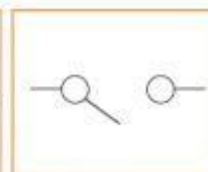
there is more than one resistor (bulb) and they are arranged on many paths; this means electricity can travel from one end of the cell through many branches to the other end of the cell



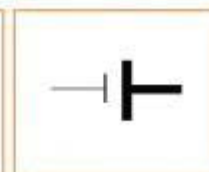
Lamp / bulb



Motor



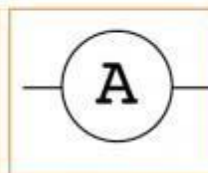
Switch



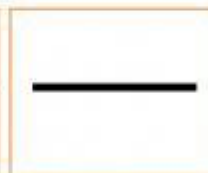
Cell / battery



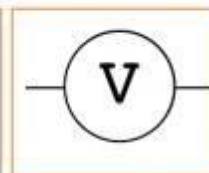
Buzzer



Ammeter



Wire



Voltmeter