

## P2.3 Electricity and Magnets

Identify the following circuit symbols:

	wire		battery
	single cell		ammeter
	battery of cells		open switch
	loop		closed switch
single cell	battery	open switch	ammeter

Match the following terms to the correct definition:

Current	The effort it is for the current to flow through a component in a circuit
Potential difference	The flow of electrons around a circuit per second
Resistance	A temporary magnet produced using an electric current
Magnetic field	The push or energy that a cell or battery can provide to the charged particles in a circuit
Electromagnet	A region where there is a force on a magnet or magnetic material

What is the equation for calculating resistance?



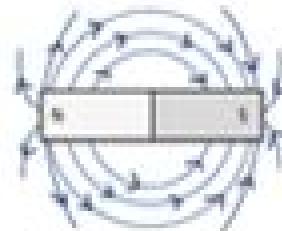
State the current unit of measurement and symbol used for each of the following:

Potential difference	Current	Resistance
Ohm's law: $V = IR$	Amperes (A)	Volts (V)

Draw a diagram and label it to show the three types of particle within an atom, indicating whether each particle has a positive, neutral or negative charge:



Mark the magnetic field around the bar magnet below:



Complete the following sentence by selecting the correct word from the options in brackets:

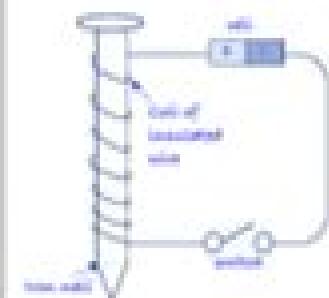
Electromagnetic magnets are **faster** (stronger) than permanent magnets. Unlike permanent magnets, electromagnetic **can** (can't) be turned on and off. They can repel an electromagnet by reversing their **current** (polarity) and a good source of **iron** (gold) and attracting **iron** (aluminium).

Suggest two ways to make an electromagnet stronger:

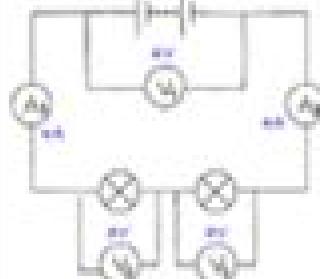
1. Increase the number of loops or turns in the coil

2. Increase the current flowing in the coil

Draw a picture of a simple electromagnet:

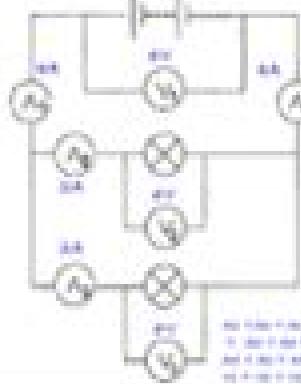


In the series circuit, the current in  $A_1$  is 1A and the potential difference across the battery of  $V_1$  is 6V. What will the values of  $A_2$ ,  $A_3$  and  $V_2$  be, assuming both the bulbs are the same?



$A_1 = 1\text{A}$   
 $V_1 = 6\text{V}$   
 $A_2 = ?\text{A}$   
 $A_3 = ?\text{A}$   
 $V_2 = ?\text{V}$

In the parallel circuit, the current in  $A_2$  is 0.6A and the potential difference across the battery of  $V_2$  is 6V. What will the values of  $A_1$ ,  $A_3$ ,  $A_4$ ,  $V_1$  and  $V_3$  be, assuming both the bulbs are the same?



$A_2 = 0.6\text{A}$   
 $V_2 = 6\text{V}$   
 $A_1 = ?\text{A}$   
 $A_3 = ?\text{A}$   
 $A_4 = ?\text{A}$   
 $V_1 = ?\text{V}$   
 $V_3 = ?\text{V}$

True or False:

An electrical conductor has high resistance.

True  False

When two unlike poles are brought together, they repel.

True  False

Iron, steel, cobalt and nickel are all magnets.

True  False

Bar magnets have a magnetic field, but electromagnets do not.

True  False

A wire carrying a current has a magnetic field around it.

True  False

An iron nail can be magnetised by striking it with a magnet from one end to the other several times.

True  False

Use practical uses for electromagnets:

• **Amperes** (small currents)

- Starting heavy vehicles (cars and vans) will be attached to the magnet that electromagnets will pull)
- Cutting wire in a magnetised
- Separating iron
- Separating and purifying
- Making big blocks of metal in a very magnetic field

# Fsdoe Revision 2013 Electricity And Magnetism Memo

**Daniela Niemeyer**

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