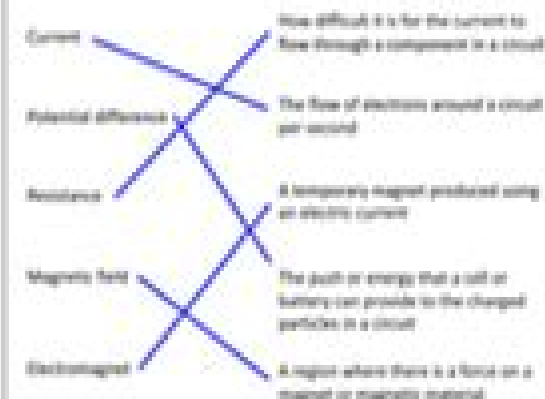


P2.1 Electricity and Magnets

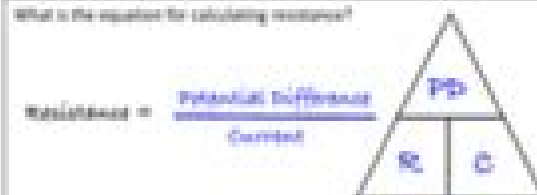
Identify the following circuit symbols:



Match the following terms to the correct definition:



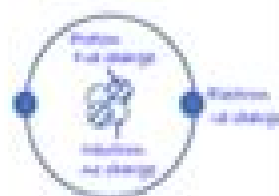
What is the equation for calculating resistance?



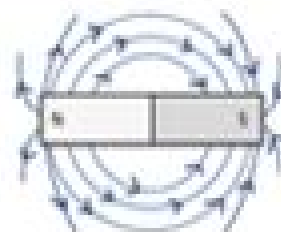
Write the correct unit of measurement and symbol used for each of the following:

Potential Difference	Current	Resistance
<u>Volts (V)</u>	<u>Amperes (A)</u>	<u>Ohms (Ω)</u>

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:



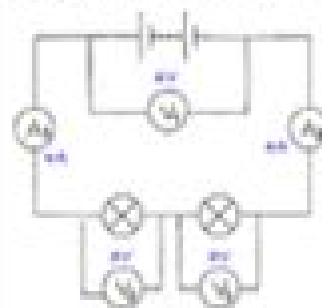
Complete the following sentences by selecting the correct word from the options in brackets:

Electromagnetic magnets are weaker stronger than permanent magnets. Unlike permanent magnets, electromagnetic can can't be turned on and off. You can make an electromagnet by wrapping flexible metal (wood) wire around pieces of iron (copper) and attaching a battery (cell).

Suggest two ways to make an electromagnet stronger:

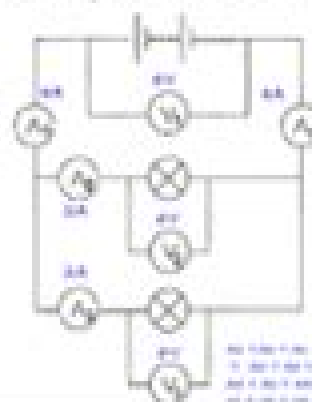
1. increase the number of turns in the coil
2. increase the current flowing in the wire

In this series circuit, the current at A1 is 0.4 and the potential difference across the battery at V1 is 6V. What will the values of A2, V2 and V3 be, assuming both the bulbs are the same?



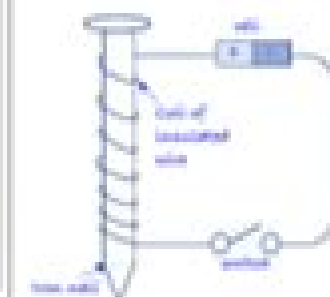
A1 = 0.4 A, A2 = 0.4 A
V1 = 6 V, V2 = 3 V, V3 = 3 V
All bulbs have same resistance

In this parallel circuit, the current at A1 is 0.4 and the potential difference across the battery at V1 is 6V. What will the values of A2, A3, A4, V2 and V3 be, assuming both the bulbs are the same?



A1 = 0.4 A, A2 = 0.2 A, A3 = 0.2 A, A4 = 0.4 A
V1 = 6 V, V2 = 6 V, V3 = 6 V
All bulbs have same resistance

Draw a picture of a simple electromagnet:



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 magnetic. 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 stroking it with a magnet from one end to the other several times. True False

List 4 practical uses for electromagnets:

- Answers could include:
1. Sorting waste metal (iron and steel will be attracted to the magnet but aluminium will not)
 2. Lifting items in a scrapyard
 3. Sorting bones
 4. Sorting metal particles
 5. Motors (eg those used to control an a.c. plug)

Fsdoe Revision 2013 Electricity And Magnetism Memo

Daniela Niemeyer



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