

Grade 8 - Science

Unit 6

Magnets



Answer the questions given below

1. What are magnetic materials? Give examples.

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2. What do you mean by the magnetic poles?

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3. Explain an activity that can be conducted to identify the poles of a magnet with diagrams

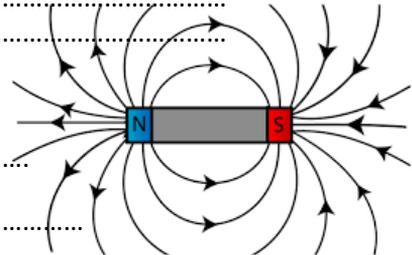
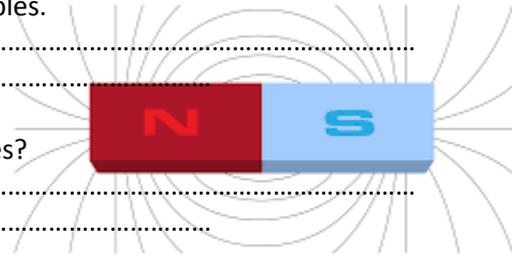
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4. What is a magnetic field

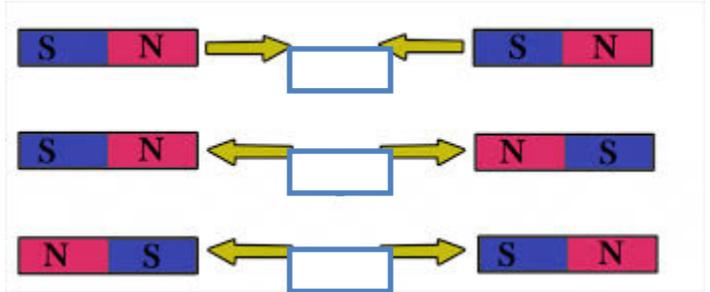
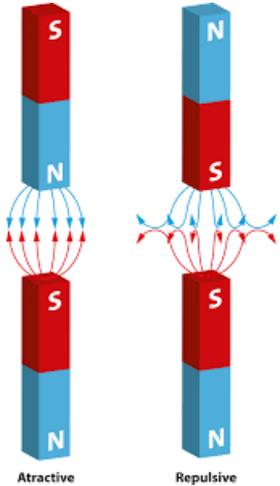
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5. Write an activity that can be done to observe how the magnetic field has arranged around a magnet

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6. Write whether there is a attraction or repulsion when the magnets are kept in the following manner



7. What is the purpose of using a compass

8. How a compass has prepared

9. Explain how you can prepare a magnet at the class room. You have to draw a diagram to show your compass

10. Select the suitable answer
 The direction of the magnetic field is (north pole to south pole/
 south pole to north pole)
11. What do you mean by geomagnetism

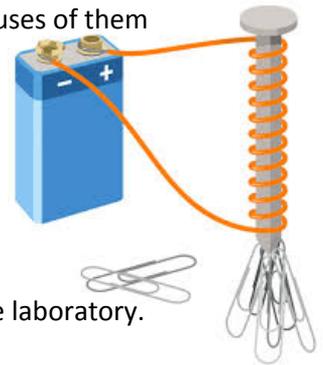
12. Explain an activity that can be used to show the geomagnetism
13. What are the reasons of forming a magnetic field around the earth
14. How the magnets can be classified according to the uses of them

15. What are electro magnets

16. Explain how you can prepare a electro magnet at the laboratory.
Show you electro magnet using a diagram

17. How you can prepare a permanent magnet at the laboratory. Show it
using a diagram

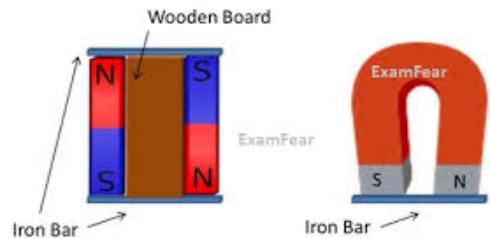
18. What are the materials that can be used prepare permanent
magnets



19. What are the ways of preparing permanent magnets

20. What are the reasons of losing the magnetic power of a magnet

21. Magnetic power of a magnet can be protected for a long time if it is stored in such a way that its magnetic field is not scattered. Draw a diagram to show how magnets can be stored.



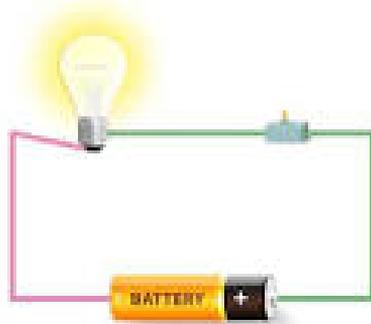
Methods to store Magnets

22. What are the instances where permanent are using

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Grade 8 Science

Measurements related to electricity



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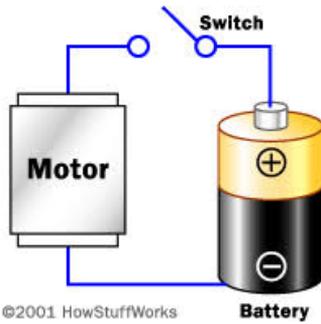
According to the above diagram when the circuit is switched on electricity is producing inside conductors

What is an electric current?

.....
.....

There is an exact direction for the flow of current. The direction of current is from positive terminal to negative terminal.

Galvanometer and miliammeter is using to find the direction of current



When the direction of the terminals changes moving direction of the battery also changes. What is the reason for that?

.....
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Measuring current

Symbol of current

I

The standard unit of measuring current

Ampere

Symbol

A

sub units of measuring current

miliampere

mA

micro ampere

μ A

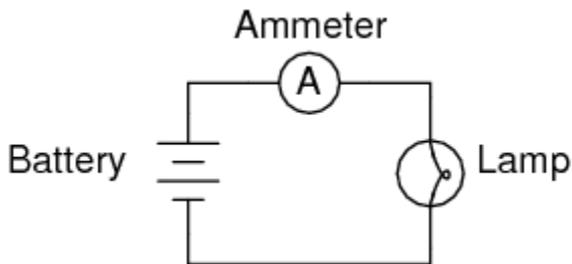


	1000 m A	=	1 A
	1000 μ A	=	1 mA
instrument used	measure current	-	ammeter
symbol		-	+  -



Mili ammeter and micro ammeter are using to measure current

In the ammeter positive terminal is denoted by red colour and negative terminal is denoted by black colour



How the ammeter should be used in measuring current

.....

Measuring Voltage

The different of electric potential energy between the two terminals of the cell is named as voltage. Electric current is passing from high potential to low potential



symbol of voltage

- V

standard unit of measuring voltage

- Volt

symbol

- v

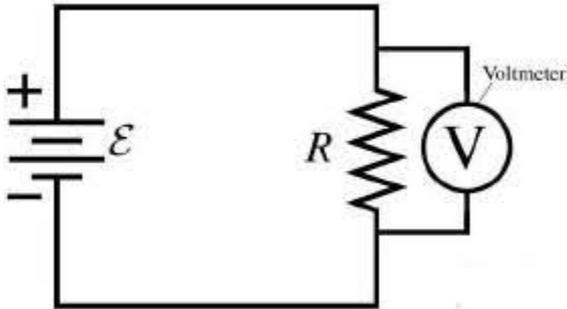
instrument of measuring voltage

voltmeter

symbol of voltmeter



How the voltmeter should be connected to the circuit when measuring voltage



What are instances that you need to measure voltage and current in day today life

Resistance



The amount of current which is passing through a conductor is depending on the substance of the conductor. The barrier for the flow of current is named as resistance.

symbol of resistance - R

unit of resistance - ohm Ω

When the amount of resistance increases the current flow reduces.