

Class-VI

Subject: Physics.

Chapter: 6

Magnetism

Date: 2.12.24

Teacher: Nimrita.

Good Morning Children! This lesson is for Class-VI, Subject - Physics, Chapter-6, Magnetism of your textbook, Conise Physics, Selina Publications. It is being submitted to you on 27.11.23
2.12.24

Today, we are going to discuss making of a magnet.

A given piece of iron can be made a magnet by:-

- 1.) By magnetic induction method
- 2.) By single touch method.
- 3.) By double touch method
- 4.) By electrical method.

1.) By magnetic induction method:-

Magnetism: can be induced in a magnetic substance by bringing a magnet near it. This property is called the magnetic induction. As soon as a magnet is removed, the iron piece no longer remains a magnet.

Activity:-

- Take a bar magnet and place it near an iron pin.
- Iron pin gets attracted by bar magnet.

Class-VI

Subject: Physics

Chapter - 6

Magnetism

Date

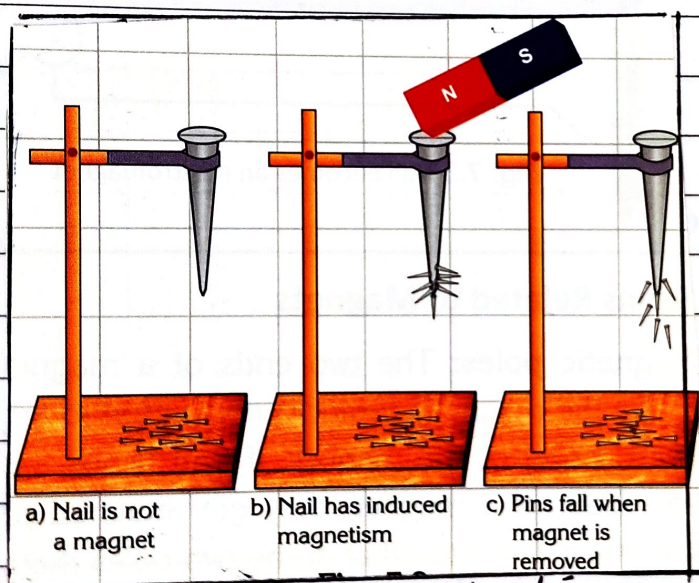
2.12.24

Teacher: Nimrita.

Bring another iron pin near the first pin.

You will observe that second pin gets attracted towards the first pin. Due to magnetic induction, the first pin is behaving as a magnet.

A chain of pins is made when more pins are brought in contact.

Magnetic induction.

2.7) Single Touch Method :-

Take an iron bar and place it on a horizontal surface. Take a magnet and select one pole (N or S). Use the same pole to rub it on the iron bar in the same direction. Repeat it many times. You have made a bar magnet. The end of the bar from where the

Class-VI

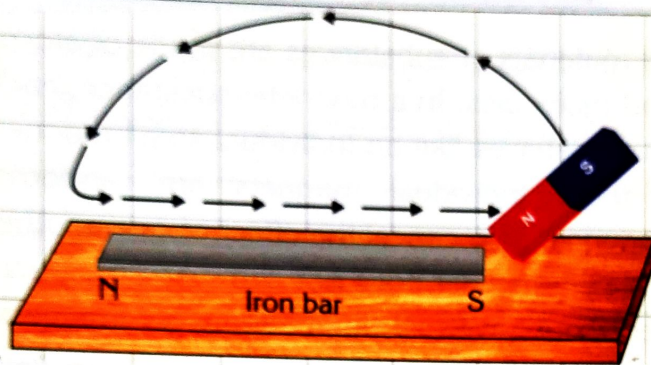
Chapter-6

Teacher: Nimika.

Subject: Physics
Magnetism

Date 2.12.24

north pole of the magnet is lifted off become a 'S' pole and the other end is a 'N' pole.

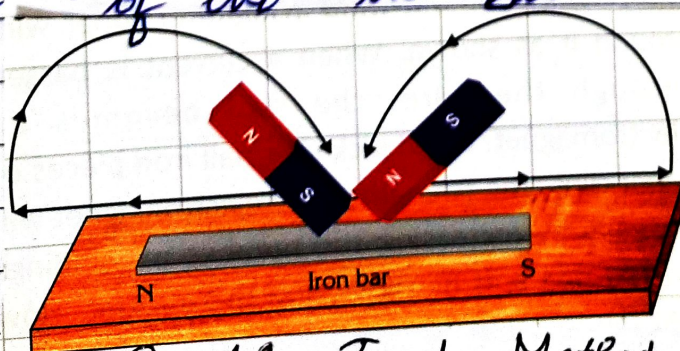


Single Touch Method

3) Double Touch Method:-

Take two identical magnets. Place 'N' pole of one and 'S' pole of the other at the middle of the iron bar. Rub the two magnets as shown from middle to end.

Repeat this several times starting from centre. Both the magnets have to be moved simultaneously in opposite directions from the centre of the iron bar.



Double Touch Method

Class-VI

Chapter-6

Teacher: Nimika.

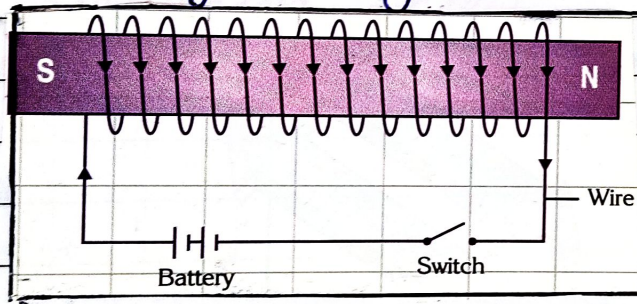
Subject: Physics

Magnetism

Date: 2.12.24

4) By electrical method:-

- Take an iron bar and wound several turns of insulated copper wire over the bar
- Connect the ends of the wire to a battery through a switch.
- Allow the current to pass through it. The iron bar becomes a temporary magnet.



Electromagnet

Temporary and Permanent magnets

Temporary magnet:- It is a magnet that retain its magnetic properties for short duration. It is made of soft iron.

Permanent magnet: It does not lose its magnetic properties. It is made of steel.

I am ending up today's lesson. Kindly complete questions 1-29 on page-89.

Thank you!

Last page.