

TOPIC 4

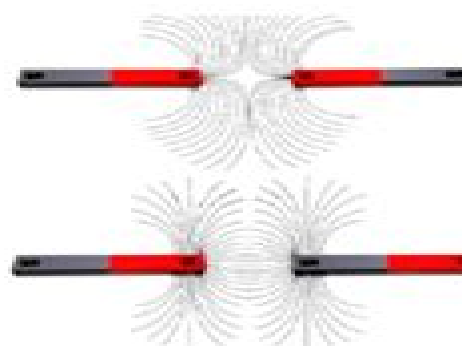
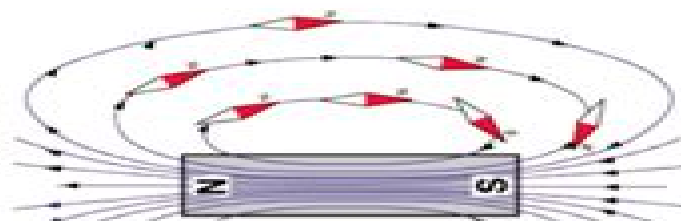
MAGNETISM

MAGNETISM:

1. Magnetism was first discovered by Greeks as early as 600 BC.
2. Certain type of iron ore called magnetite or lodestone has property to attract small pieces of iron.
3. Chemically the magnetic material has formula Fe_3O_4 .
4. The word magnetism is derived from Magnesia, the place where magnetic iron ore was first discovered.

Properties of Magnetic Materials:

1. The materials that can easily be attracted by magnet are called **ferrous materials** or **ferromagnetic** such as iron, steel, nickel, cobalt.
2. The materials that are not attracted by magnet are called non-ferrous materials such as copper, brass, wood and glass.
3. Poles of a magnet are at the ends to which magnetic material are attracted. These ends are of equal strengths. They are **called north and south poles**.
4. When a magnet is hanged freely, its poles are always facing towards the earth's north and south poles.
5. **Law of magnetic poles:** Like poles of magnets repel and unlike poles attract each other.
6. **Magnetic field:** The space surrounding a magnet where it produces a magnetic force on magnetic materials is called magnetic field. It has direction which is at any point should be the direction of the force from north pole to south that is the arrows are always coming out from north pole to south pole.
7. The magnetic lines of force are the lines of magnetic field which are always pointing from North Pole to south pole of a magnet.
8. **Soft Magnetic Material:** That can magnetize and demagnetize easily, like iron
9. **Hard Magnetic Material:** They are harder to magnetize and demagnetize, like steel.
10. **Neutral point:** When two magnet of same magnetic strength are place next to each other facing the like poles, they create a point where one magnetic field cancels the other. This point is called neutral point of null point.



Magnetism Physics Concept Questions

M Walker



Magnetism Physics Concept Questions:

Decoding **Magnetism Physics Concept Questions**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Magnetism Physics Concept Questions**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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