MAGNETISM

Magnets

Natural : found in nature (ex.Lodestone) – composed of oxides of iron (Fe₃O₄)-Attracts iron Magnetism – property of attracting iron Magnetic force- the force that a magnet exerts on iron Artificial : magnetized piece of iron or magnetic materials.

Magnetic	Non-Magnetic
Substance	Substance
are attracted by	are not attracted
magnets	by magnets
	ex: aluminium,
ex: iron, cobalt,	copper, wood,
nickel	plastic

Magnetic Field :

The space around the magnet where its influence can be experienced is known as magnetic field

Magnetic Field Lines :

The space around the magnet in which the compass needle rests in a direction other than the geographic north-south direction.





Evidences of Earth's Magnetic field :

Earth also behaves like a magnet – its north pole is closer to geographic south pole and its south pole is closer to the geographic north pole.

- Freely suspended magnetic needle always points in geographic north-south direction
- Iron rod buried inside earth along N-S direction becomes a magnet

