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15. The north pole attracts the south pole of another magnet but repels the north pole:-

Bec. opposite poles attract but Like (similar) poles repel

16. Compass is used to locate the main four directions

Bec. its magnetic needle always points to the north and south directions of the earth

17. A wrought iron nail is used for making the electromagnet: Bec it gains and loses the magnetism easily

18. Dissolving sugar in hot water is faster than in cold water:- Bec. as the temperature increases, the speed of the solubility increases

19. Plants are producers (autotrophic organisms):-

Bec. they make their own food

20. Predation in plants less common:-

bec. they make their own food (Carbohydrates-Protein)

12. Some plants prey insects:-

to get their required elements to make protein

13. Predation temporary relation:-

Bec. it ends up by killing or attacking the Prey

14. Predation relationship plays an important role in keeping the balance of ecosystem

Bec. The predation relationship organizes the number of preys population

### ◆ Very Important Point

☉ Light travels in straight lines

☉ Sources of light:- the sun, candles, electric lamp

✓ The image is minimized and inverted

☉ The nearer object to the light source has the bigger shadow

☉ The light speed through air is faster than that through water

✓ Transparent materials:- Allow most light to pass through ex: Clear glass - Clear water - Air

☉ Semi-transparent:- Allow some light to pass ex. Tissue paper

✓ Opaque materials:- Don't allow light to pass ex. Wood - people

☉ White light:- consists of seven spectrum colours prism separate white light into seven colours

✓ The seven spectrum colours:-

Red - Orange - Yellow - Green - Blue - Indigo - Violet

☉ When Seven light colours mixed together produce white light

✓ The coloured transparent, translucent materials:- Absorbs all colours of light and permits its own color only to pass through it

☉ The opaque objects:- it absorbs all light colours and reflects its own colour only we see the banana is yellow

✓ The white opaque object:-

it reflects all the light colours that falls on it

☉ The black opaque object :-

it absorbs all the light colours

✓ Red + Green  $\longrightarrow$  yellow

✓ Red + Blue  $\longrightarrow$  purple (magenta)

✓ Blue + Green  $\longrightarrow$  cyan

☉ Natural magnet:- is a black rock and its one of iron ores called magnetite

☉ Artificial magnet:- made by man ex. horse shoe magnet, ring, bar, needle magnet

☉ The magnet has two (poles): north (red) - south (blue)

✓ Magnetic force:- is concentrated at the 2 poles and decreases until disappears in middle

☉ The freely moving (suspended) magnet takes north-south direction

☉ Like (similar) poles repel, but dislike poles attract

☉ By cutting the electric current, the wrought iron nail (electromagnet) loses its magnetic force

✓ The magnetic force of the electromagnet increased by:- increasing the number of 1. Coil turns 2. batteries As the intensity of electric current passing increases

☉ Electromagnet:- used in:- 1- lifting heavy iron blocks 2- Making:- electric bell - electric mixer - tv

☉ The dynamo (the electric generator):- changes the kinetic energy into electric energy

✓ The electric current increases by increasing the:- motion of coil between the two poles of magnet

☉ Increasing electricity by:- 1- Using a strong magnet 2- increasing the number of coil turns

✓ Separation of mixtures:-

1. Magnetic attraction:- Sand-Iron fillings

2. Filtration process:- Sand-Water

3. Evaporation process:- Salt-Water

4. Separating funnel:- Oil-Water

✓ Solution consists of:- Solvent - Solute

☉ Factors increases the speed of the solubility:

1. the quantity of solvent and solute

2. Increasing the temperature

3- Stirring - Shaking 4- Kind of solute

✓ Chameleon:-

simulates the surrounding environment colour

☉ Frog:- changes its color to hide from its enemies.

✓ Butterfly:- Stands on tree with similar colour

☉ Cuttlefish (sepia):- ejects black fluid to hide

✓ Bee:- looks like wasp to fear enemies and escape

☉ Mutualism Nodular bacteria: provide Leguminous plants with Nitrogen (in an Inorganic form) Leguminous plant provides bacteria with Sugar

1. External parasitism:- parasite sucks blood of host, convey diseases to host: ex: Mosquitoes - Lice - Ticks - Bugs - Fleas - Jawless Lamprey: sucks fish's blood

2- Internal parasitism:- parasite inside host's body, feed no its cells or shares its digested food ex: Ascaris - Flaria - Tape - Liver - Bilharzias

✓ Factors disturb environmental balance:

1. natural changes 2. man interference (cut down trees - burning forests - pollute environment)

☉ Diseases: 1-Fleas (small pox) 2-Ascaris (anaemia) 3-Mosquitoes (malaria) 4-Flaria (elephantiasis)

