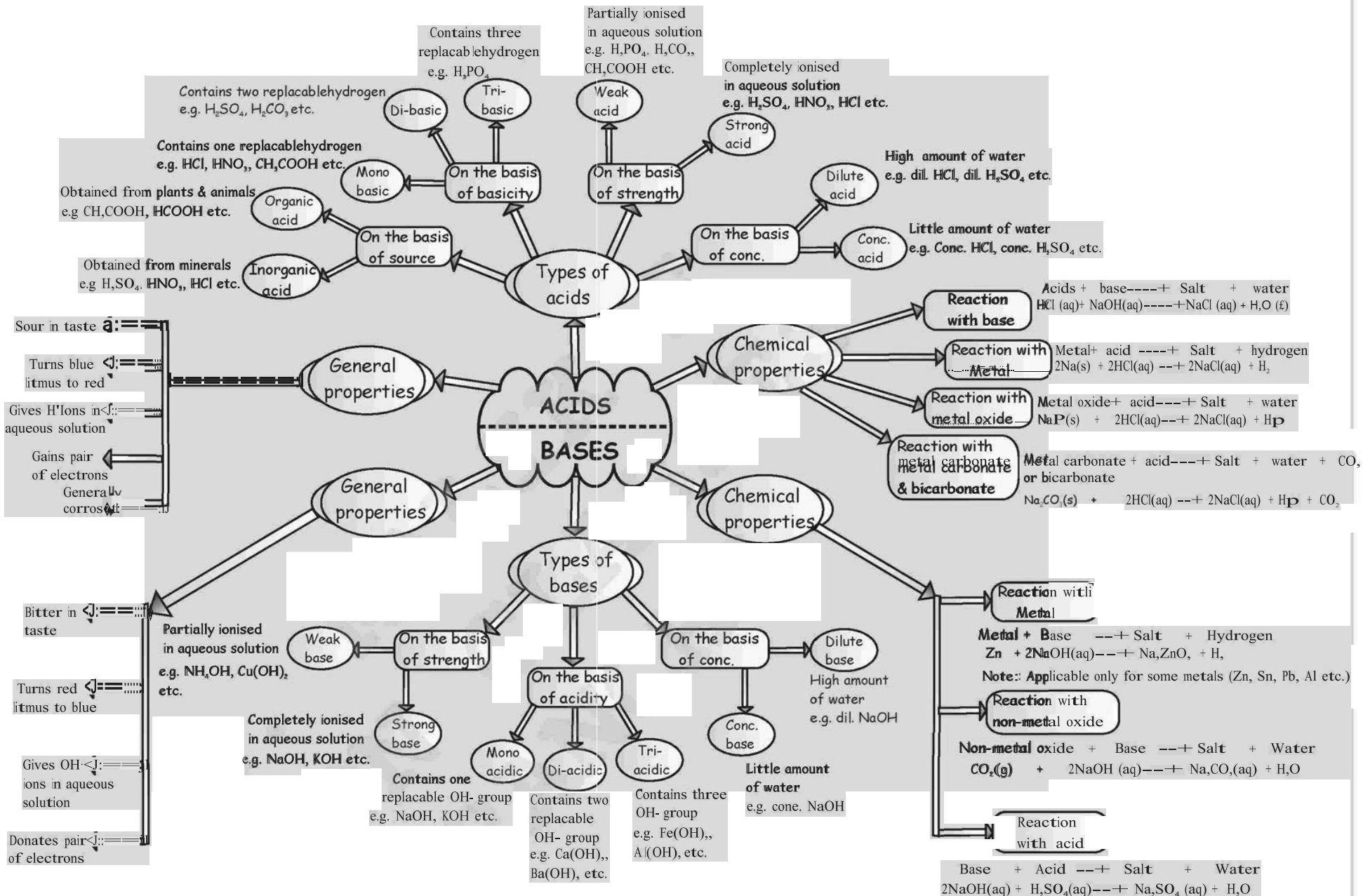


Class-X(Chemistry)



Solution	PH	Solution	PH
1. 1 M Hydrochloric acid	0	14. Urine	5.5 - 7.5
2. Battery acid	0.5	15. Saliva	6.5 - 7.5
3. Dilute hydrochloric acid	1.0	16. Blood	7.3 - 7.5
4. Gastric juices (Digestive juices in stomach)	1.0-3.0	17. Eggs	7.8
5. Lemon juice	2.2 - 2.4	18. Baking soda solution	8.4
6. Vinegar	2.4 - 3.4	19. Sea-water	8.5
7. Soft drinks	3.0	20. Washing soda solution	9.0
8. Wine	2.8 - 3.8	21. Lime-water	10.5
9. Oranges	3.6	22. Milk of magnesia [Mg (OH) ₂ solution]	10.5
10. Tomato juice	4.0 - 4.4	23. 1 M Ammonium hydroxide (Household ammonia)	11.6
11. Beer	4.0 - 5.0	24. Dilute sodium hydroxide	13
12. Coffee	4.5 - 5.5	25. 1 M Sodium hydroxide	14
13. Milk	6.5		

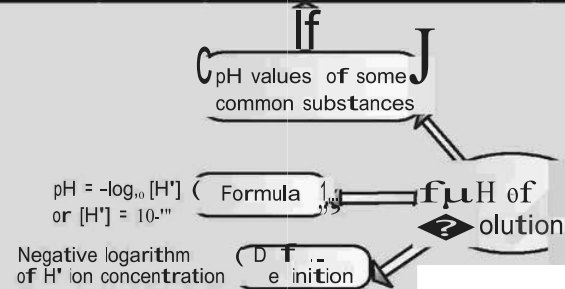
Class-X(Chemistry)

Poisoning effect of stings of wasp (alkaline) is neutralised by vinegar (acidic)

Poisoning effect of stings of ant & bees (acidic) is neutralised by soap (basic)

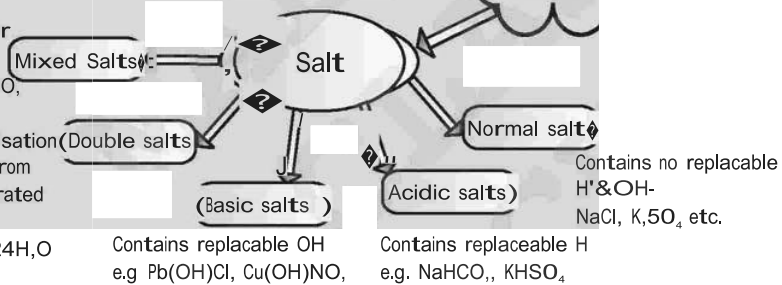
Effect of acidity in soil is neutralised by Ca(OH)₂

Acidity (gastric problem) is neutralised by antacid such as NaHCO₃, Mg(OH)₂ etc.

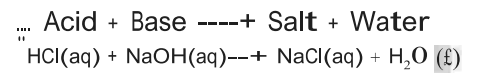


Salts which contain two or more acidic or basic radicals
 e.g. Ca(OCl)Cl, NaKCO₃

Obtained by crystallisation of two simple salts from mixture of this saturated solution
 e.g. K₂SO₄.Al₂(SO₄)₃.24H₂O



Neutralization Reaction



Indicators

Olfactory) Change its colour in different medium.
 e.g. Clove Oil, Vanilla extract, Raw onion

Visual)

Indicator	Original colour	Colour in acidic medium	Colour in basic medium
Blue litmus	Blue	Red	Blue
Red litmus	Red	Red	Blue
Turmeric	Yellow	Yellow	Reddish-brown
China rose	Pink	Dark pink (magenta)	Green
Methyl orange	Orange	Red	Orange
Phenolphthalein	Colourless	Colourless	Pink
Purple Cabbage juice	Purple	Red	Green