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Life is not Life without Chemistry

1. Increase in Production of Food
2. Application in Industries
3. Transport & communication

Scope

Importance

Negative Role

1. Chemical Fertilizers
2. Insecticides
3. Polythene

Chemistry

Principle of Conservation of Mass

for his Work

Antoine Lavoisier

Father of

is Taken from Mishr Word

Chemea

means

Black Stone

Study of composition, Structure & Prop. of the **Matter**

Mass & Vol. is anything that has under diff. Cond. of Temp. & Pressure Everything present in this universe are matter

According to Ancient Indian Philosophers

All the matter was made up 5- Basic elements

Panch Tatva

Earth, Water, Fire, Sky, Air

Physical Change

Under Condition of T & P

Chemical Change

by a chemical Reaction

Fixed Shape
Fixed Vol.
High density

Solid

Fluidity in Nature

Liquid

Thermal Energy
S L G
Force of Attraction

Compressible

Gas

Due to superheating of gas
Exist at very Temp. 10^7 K
Heavy Luminous Body
Sun & Star

Plasma

Bose-Einstein-Condensate
Very Low Temp.

BEC

Pure Substance

Only One Substance

Mixture

Variable Composition

Heterogenous

Which do not have uniform Comp. Throughout

True Solution

Uniform Composition Throughout

Homogenous

is made of only one type of Atom

Total 118

Element

Man made/ Transmutation

Compound

at least two diff. elements

Solution

Small Extent
Solute
Solvent

Suspension

particles will settle down
So, not pass through FP & PP

Large Amount*

Colloids

Particles that will not settle

98

Natural

7

Metalloids

B, Si, Ge, Te, Po, As, Sb

Noble gas
Halogen

Non-metal

Metal

A.M
A.E.M
T.M
I.T.M

Lanthoids
Actinoids

Inorganic Compound

Organic Compound

Organometallic Comp.

M-C-H group
Ex- ferrocene
 $\text{Fe}(\text{C}_5\text{H}_5)_2$

Ionic Comp.

Cation

Anion

Cyclic/ Close Chain

Acyclic/ Open Chain

Saturated

Alkane

propane

Un-saturated

Alkene

Alkyne

propene

propyne

Homocyclic

Heterocyclic

Aromatic

Non-Benzenoid

Benzenoid

Benzene

Tropone

Tropolone

Saturated

Cyclo hexane

Un-saturated

Cyclo hex-1,3-diene

Furan

Pyridine

Oxa Cyclo Pentane (THF)

Aza Cyclo Pentane (Pyrrolidine)

Interconversion of state of Matter

