Is Matter Around Us Pare Pure Substance Element Compound Non Metals Metaloid & Pure Substance Mixture 1 It Consist of a Single type of Substance It Consist of two or more pare Substances. 2 It Connot be Seproted into Other Substance by It can be Subrasted into its Component by physical Nethods Physical Methods. It Shows the Property of its 3 Pure Substance has its own Constituent . definite properties ex- No, Cl, K, Calle etc Ex- Sugar Solution

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Types of Mixtures - On the basis of miscibility mixture are of two types -(2) Homogeneous Mixture - It is a type of mixture in which has a Uniform Composition throughout. Ex- Salt - Water Mixture (6) Heterogeneaux Mixture - It is a type of Mixture in where there 15 a non-Uniform Composition. Ex- Salt and Sulphur, Sall D- Water Mixture. Metalloids - The elements catich show some properties of metals

NIM. I. and some other properties of non metals one called Ex - Boson (B), Silicon (Si) and Grermanium (Gre) Compounds - At Compound is a Substance made ap of two or more elements chemically Combined in a fixed proportion by mass Ex - In Ho Hand O Combined in the natio 1:8 Difference bla Mixture & Compound Mixture Compound It can be Sepreted into it = It can not be sepreted into its Constituents by physical process Constituents by physical process. It shows the properties of its 1 It does not shows the properties of Constituents. its Constituents. The Composition of Mixture is 3 The Composition of Compound 1) Variable. It does not have a fix M.P. I' It has a fixed M.P and B.P and B.b

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Alloy ane homogeneous mixtures of metals and Connot the Seprated into their Component by physical Method. Ex- Boross - Ce + In (Two on more metals) Boton de - Cu + Sn Solden - Pb + Sn Suspension Colloids Dolution - It is a homogeneous of two on mone Substances. prote Ex- Salt Solution, Sugar Solution, Vinegas, air etc · It is homogeneous mixture. . The Si Ze of Solute particles in Solution is Very Small. · It does not scatter light. . The particles of Solution O pass through filter paper. Surpersion - It is a heterogeneous mixture in which the Small position of Solid agre spread throughout a liquid without dissolving in it. Ex- Chalk Water mixtune, Myddy Water C+C Colloicles - It is a kind of Solution in which the Side at Solute particles is intermediate between those in -true Solution and those in Suspension. Er- Soap Solution, Hilk, Blood edc Scanned by CamScanner

2. The Size of Solute positiles is brigger than those in · true Doln but Smaller to he terajeneous 3. Its particles scatter light. 4. Its passticles pass through filter paper. Concentration of a Solution - It is defined as the many of Solute in grand present in loogen of Solution. Conc of Soln = Mass of Solute x loo
Mass of Solution Conc of Sin = Volume of Solate Volume of SolM Saturated And Unsaturated Solution Daturated Solution - A Solution in which no Morre quantity of Solute Can be dissilved con that mat southing its temporature Unsaturated Solution - A Solution in which more quantity of Solute can be dissolved without naising its temperature is called an Unsaturated Solution.

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Solubility - The maximum amount of solute which can be -dissolved in 100 gm of solvent at a pasticular temperature is known as the solubility of that solute in that solvent. The Solubility of solids in liquids usually incorcases on incoreasing the temporature and decorrases on decorrosing the temporature. HYSZCAL And CHEMZCAL Changes Physical Changes - Those Changes in which no new Substance are formed, are called physical changes. Ex- Melting of ice, forceding of Water, etc (Physical changes are temporary changes) Chemical Changes - Those Changes in which new Substances asse Formed, one called Chemical Changes.

Ex- Buenning of candle, Rusting of ison etc. (Chemical changes and permanent changes)