Matter Part 2: Separating Mixtures Knowledge Organiser

Mixtures Mixtures are different substances which are together, they are not . Filtration Chromatography chemically bonded and so are easy to separate The substances which make up a mixture keep their own properties solvent filter paper ٠ front unlike those in a compound filter funnel residue (sand) A mixture is an impure substance as it does not have a fixed melting clamp ٠ position of point, instead it has a range solute conical flask A solution is a type of mixture which is made up of two parts • A solute is the part which has dissolved in the solution ٠ A solvent is the liquid part which the solute has dissolved into ٠ filtrate (water) starting point The solubility of a substance is a measure of how much of it will ٠ dissolve Distillation Evaporation Not all solutes will dissolve in all solvents ٠ evaporating Solutes which do not dissolve are known as insoluble . waterout thermometer basin Substances which do dissolve are known as soluble ٠ condenser The solubility of a substance can be increased by increasing the . temperature of the solution or by stirring the solution A saturated solution is one where the maximum amount of solute has ٠ -beaker salty waterdissolved in it, no more solute will be able to dissolve oure water water i bunsen burner Key Terms Make sure you can write definitions for these key terms

saturated solution Solvent mixture chromatography condensation distillation evaporation filtration impure substance pure substance solute solubility dissolve properties solution soluble substance property boiling point