

Review sheet for Classification of Matter Unit

1. Be able to differentiate between a pure substance and a mixture
2. Be able to look at pictures and chemical formulas and decide if something is pure or a mixture

Examples:

Au

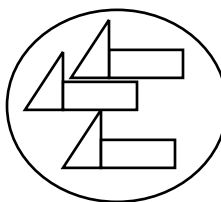
Sugar and water

Ca

Air



3. Be able to differentiate between elements and compounds/molecules. Recognize that compounds and molecules are pure substances but have more than one type of particle chemically bonded to each other. (NaCl, H₂O, C₆H₁₂O₆, HCl etc)



4. If something is a mixture, be able to determine if it is Homogeneous or Heterogeneous.
5. If a mixture is Heterogeneous, is it a colloid or a suspension?
6. If a mixture is Homogeneous, is it a solution? If yes, what is the solute? The solvent?
7. Which mixtures exhibit the Tyndall Effect (scatter light)? - Suspension? Solution? Colloid?
8. Which mixtures can NOT be separated by filtration? Suspension? Solution? Colloid?
9. Be able to give examples of each type of MATTER!