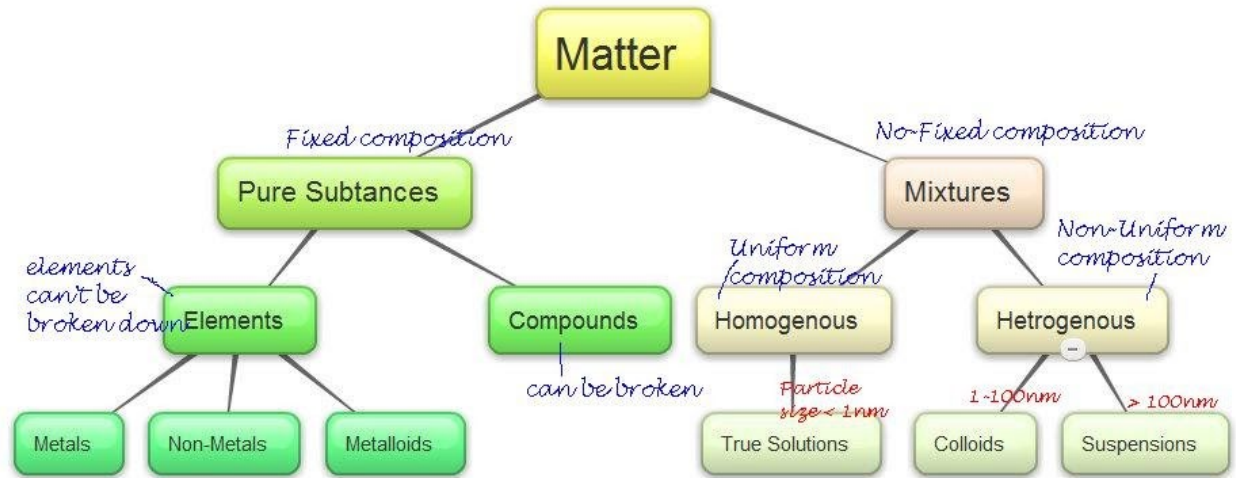
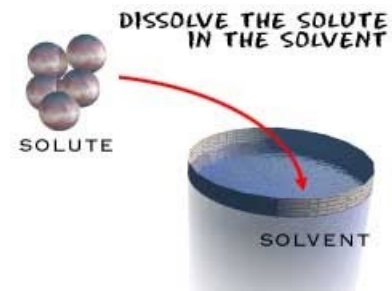


NOTES: SOLUTIONS, COLLOIDS AND SUSPENSIONS



- The type of solution depends on particle size



Tyndall Effect

- Ability of a substance to scatter light and show a beam of light as it passes through
- Used to determine if a substance is a colloid

Filtering

- Some mixtures can be physically separated if particles are large enough (AKA suspension)
- Using filter paper, solvent passes through, but solute is trapped

PROPERTY	SOLUTION	COLLOID	SUSPENSION
Particle size	Less than 1 nm	1 to 100 nm	More than 100 nm
Appearance	clear	cloudy	Cloudy
Separation	Does not separate	Does not separate	Separates or settles
Filterability	Passes through the filter paper	Passes through the filter paper	Particles do not pass through filter paper
Effect of beam of light	Light can pass through	Scatters light	Light cannot pass through
Example	Salt solution	mayonnaise	Muddy water