## Classifying Mixtures: Reference Table of Properties for Solutions, Suspensions and Colloids ←STUDY NOTES

Directions: Fill in the table from the readings and to the best of your knowledge.	Solutions Mixture (Y or N)?	Suspensions Mixture (Y or N)?	Colloids Mixture (Y or N)?
Describe the spacing, arrangement or distribution of the particles in each.			
Draw a little picture next to your writing of the particles.			
List: Heterogeneous or Homogeneous			
Describe the size of the particles.			
Write the actual particles' range sizes.			
Answer the following questions =>	List the two parts of a solution:  What is the process of forming a solution?	List 3 ways to separate suspensions.	List the two parts:  What's a specific type of colloid and what makes it different?
List examples of each from the reading and class.			
Particle size compared to light-waves:			
Tyndall Effect: Does it scatter light?	(Y or N or sometimes)	(Y or N or sometimes)	(Y or N or sometimes)
List: transparent, translucent, opaque			

## VIBGYOR

solutions

1ηm colloids

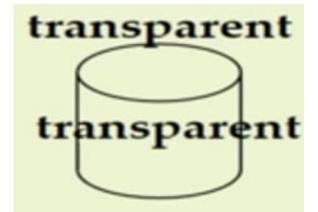
1μm 10<sup>-6</sup>m

suspensions

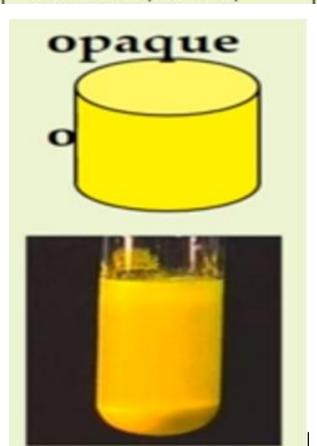
10μm 10<sup>-5</sup>m

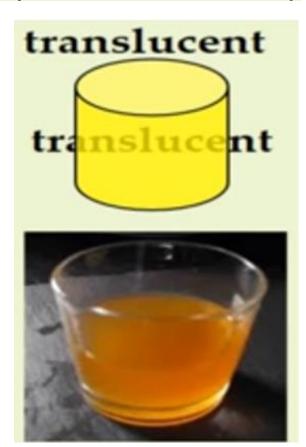
- won't separate on standing (indefinitely stable)
- · non-filterable

- separates slowly on standing (60 years ↔ 2 days)
- separable by semi-permeable membranes (cell walls)
- separate on standing (48 hr ↔ 30 min)
- · filterable









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Directions: Fill in the table from the readings and to the best of your knowledge.	Solutions Mixture (Y or N)?	Suspensions Mixture (Y or N)?	Colloids Mixture (Y or N)?
Describe the spacing, arrangement or distribution of the particles in each.	Molecular arrangement of particles due to "ionic dissociation"		KE-Kinetic Energy rules the particle
Draw a little picture next to your writing of the particles.	particles dissolve		RE greater than gravity  Particles don't settle  Ro 0 - 0  So 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
List: Heterogeneous or Homogeneous			(a) 0' (a)
Describe the size of the particles.	Smallest-atomic scale	Lorgest -	Medium (approx)
Write the actual particles' range sizes.			size < loonm to size > loonm .
Answer the following questions =>	List the two parts of a solution:  What is the process of forming a solution?  ionic dissociation  dissolving	List 3 ways to separate suspensions.	List the two parts: dispersive olloidal Particles & medium What's a specific type of colloid and what makes it different?
List examples of each from the reading and class.		₹	
Particle size compared to light-waves:	Smaller < Inm	Larger light wave	same size range
Tyndall Effect: Does it scatter light?	(Y or N or sometimes)	(Y or N or sometimes)	(Y or N or sometimes)
List: transparent, translucent, opaque			

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Directions: Fill in the table from the readings and to the best of your knowledge.	Solutions Mixture (Oor N)? Soluter +	Suspensions Mixture(V)or N)?	Mixture (Por N)? Colleid and Mixture (Por N)?
Describe the spacing, arrangement or distribution of the particles in each.  Draw a little picture next to your writing of the particles.	Molecular arrangement of particles due to ionic dissociation Particles dissolve	the particle  Particles unevenly  distributed and  settle out bases	rules the partiale.  KE greater than gravity  Particles don't  Settle
Heterogeneous or Homogeneous	homogeneous	n size over time  SM  SM  Size over time  SM  SM  SM  SM  SM  SM  SM  SM  SM  S	homogeneous
Describe the size of the particles.  Write the actual particles' range sizes.	Smallest -atomic (Atoms) scale e < less than I nano - meter	largest 1000 nm	medium - approx. Size < 1000nm Eye of Size > 100nm consee
Answer the following questions =>	List the two parts of a solution?  Solute & Solvent What is the process of forming a solution?  Dissolving	List 3 ways to separate suspensions.  Coagulation  filtration  Settlinge centrifuge	What's a specific type of colloid and what makes it different?  Emulsion  liquid in liquid
List examples of each from the reading and class.	salt water sugar water lemonade cour		milk Jello latex paints butter whipped cream Jelly same size range
Particle size compared to light:	smaller	larger	'
Tyndall Effect: Does it scatter light?	(Y or Nor sometimes)	(V) or N or sometimes)	(Yor N or sometimes)
List: transparent, translucent, opaque	Transparent	transfluent	opaque