

CHAPTER 14 STUDY GUIDE

Mixtures and Solutions

Section 14.1 Heterogeneous and Homogeneous Mixtures

In your textbook, read about suspensions and colloids.

For each statement below, write *true* or *false*.

- false 1. A solution is a mixture containing particles that settle out of the mixture if left undisturbed.
- true 2. The most abundant substance in a colloid is the dispersion medium.
- false 3. A colloid can be separated by filtration.
- true 4. A solid emulsion consists of a liquid dispersed in a solid.
- true 5. Whipped cream is an example of a foam.
- false 6. In an aerosol, the dispersing medium is a liquid.
- true 7. Brownian motion results from the collisions of particles of the dispersion medium with the dispersed particles.
- true 8. Dispersed particles in a colloid do not tend to settle out because they have polar or charged atomic groups on their surfaces.
- false 9. Stirring an electrolyte into a colloid stabilizes the colloid.
- true 10. Colloids demonstrate the Tyndall effect.

The table below lists the characteristics of particles in colloids, solutions, and suspensions. Place a check in the column of each mixture whose particles have a particular characteristic.

Characteristics of Particles	Colloid	Solution	Suspension
11. Less than 1 nm in diameter		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12. Between 1 nm and 1000 nm in diameter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13. More than 1000 nm in diameter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Settle out if undisturbed			
15. Pass through standard filter paper	<input checked="" type="checkbox"/>		
16. Lower vapor pressure			<input checked="" type="checkbox"/>
17. Scatter light	<input checked="" type="checkbox"/>		

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JG Myers



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