

1. Explain why solutions are classified as mixtures instead of compounds.
2. Solutions are _____ mixtures made up of very small particles that are actually molecules, _____, or _____.
3. Solutions are said to be in a _____ phase even though the components may have been in different phases before the solution was formed.
4. Pure gold is 24 carat. 14-carat gold contains 14 parts gold and 10 parts other metals. 14-carat gold is said to be a(n) _____, which is a type of _____ solution. An example of a gaseous solution is _____, which is made up mostly of _____ and nitrogen when dry. The most common solutions are _____ solutions.
5. Define miscible:
6. Define immiscible:
7. Because of the _____, you can see the light beams from car headlights in a fog.
8. Multiple choice: To increase the rate of solution of a solid in water,
 - a. increase the pressure over the water.
 - b. decrease the pressure over the water.
 - c. crush the particles of the solid.
 - d. chill the water.
9. If 15 grams of iodine are dissolved in 1000 mL of alcohol, the alcohol is the (solute, solvent) and the solution is said to be a(n) _____.
10. A substance that dissolves other materials is a (solute, solvent). The substance being dissolved is a (solute, solvent).

11. In (solutions, suspensions) the substances separate after standing a while. The substances (can also, can not) be separated by filtration.
12. Smoke is an example of a _____ of solid dirt and dust particles in air. After a while, the solid particles will fall to the ground.
13. A(n) _____'s particles are between those of a solution and a suspension.
14. _____ are actually colloids comprised of one liquid in another liquid. A(n) _____ agent keeps the particles mixed.
15. What is an aqueous solution?
16. What is the solute in a brass alloy containing 75% copper and 25% zinc?
17. How does a solution behave differently from a suspension when a beam of light is shined through it?
18. Substances that conduct electricity when dissolved are said to be _____, while substances that do NOT conduct electricity when dissolved are said to be _____.