In Cla	ss Solut	ions Review	Name:	
			Date:	Per:
1.	Descri	be the difference between unsaturated, saturated, and	supersaturated solution	ns?
2.	What a	are properties of electrolytes?		
3.	Descri	be what happens when a solution forms. Be sure to dis	scuss the process of diss	ociation/ionization.
4.	What	loes it mean if a solution or reaction is said to be at eq	uilibrium?	
5.	What 6	effects does dissolving a solid in water have on the free	ezing point and boiling p	point of water?
	A.	Increases both		
	В.	Decreases both		
	C.	Decreases freezing point and increases boiling point		
	D.	Increases freezing point and decreases boiling point		
6.	Which	of these actions will not increase the rate at which sal	t dissolves in water?	
	A.	Increasing the temperature		
	B.	Agitating the solution		
	C.	Using larger particles of salt		
	D.	Using smaller particles of salt		
7.	When	sugar is dissolved in water, which term best describes	the sugar?	
	A.	Solute		

B. Solvent

C. Concentrated

D. Electrolyte

- 8. Which of these will not affect a solution already at equilibrium?
 - A. Changing the temperature
 - B. Adding more water
 - C. Stirring the solution
 - D. Increasing the pressure
- 9. The equation for the decomposition reaction of $CaCO_3$ is shown below.

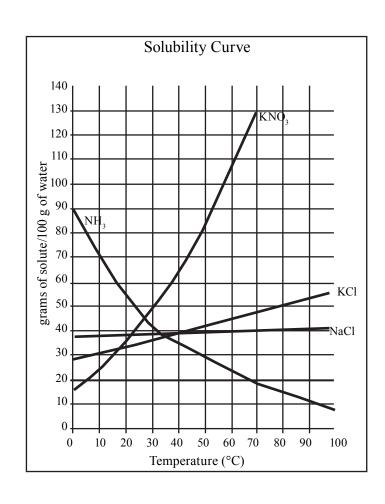
$$CaCO_3(s) + heat \Leftrightarrow CaO(s) + CO_2(g)$$

Which of these change would call the system at equilibrium to shit to the formation of more product?

- A. Increasing the temperature
- B. Adding more CO₂
- C. Removing CaO as it is formed
- D. Both A and C
- 10. Which of these is not a characteristic property of solutions?
 - A. They are homogeneous
 - B. They do not separate upon standing
 - C. The can be separated by filtration
 - D. They do not scatter light

Use the solubility curve to answer questions 11-14

- 11. Which compound shows the greatest change in solubility over the range of the graph?
- 12. What is the solubility of NH₃ at 30°C?
- 13. Why does the solubility of NH₃ decrease as temperature increase while the other compounds all show an increase in solubility?
- 14. What is solubility a measure of?



Use your textbook or know	vledge from first semester to a	nswer questions 15-17.		
15. What is a suspensi	on? Is it a solution? Explain you	ur choice.		
16. What is a colloid? I	s it a solution? Explain your ch	oice.		
17. What is the tyndall suspension, or coll	effect? How can the Tyndall ei oid?	ffect be used to classify a	mixture as a solution,	
18. IF 18.25g of HCl ar HCL solution?	e dissolved in enough water to	make 500.0mL of solutio	n, what is the molarity of the	j
19. What is the molalit	ry of a solution where 25g of Na	aCl are dissolved in 2000រុ	g of water?	
	nires 0.5L of a solution of 2M N all lab equipment needed, the n			