Name	Solubility	v Curves			
60. °C?  A) KCIO 3 B) F C) NaCl D) I	1. Which compound is least soluble in water at 60. °C?  A) KCIO 3  B) KNO3		· 1		
at 90°C in 100. grams o to Reference Table G, l NH3 could this unsature contain?	C) 5O <sub>2</sub> D) KNO <sub>3</sub> 8. According to Reference Table G, how does a decrease in temperature from 40°C to 20°C affect the solubility of NH <sub>3</sub> and KCl?				
A) 5 g B) 10. g C) 15 g D) 20. g  3. According to your Reference Tables, when 80 grams of the substance is dissolved in 100 grams of H <sub>2</sub> O at 10°C?		<ul> <li>A) The solubility of NH<sub>3</sub> decreases, and the solubility of KCl decreases.</li> <li>B) The solubility of NH<sub>3</sub> decreases, and the solubility of KCl increases.</li> <li>C) The solubility of NH<sub>3</sub> increases, and</li> </ul>			
C) NaNO <sub>3</sub> D)  4. According to Reference	) NaNO <sub>3</sub> D) NaCl ccording to Reference Table <i>G</i> , which of		the solubility of KCl decreases.  D) The solubility of NH3 increases, and the		
these substances is mode.  A) NaCl  B) I  C) KClO <sub>3</sub> D)		solubility of KCl increases.  —— 9. Which of the salts listed below is most soluble at 60°C?			
5. According to Reference Table G, how many grams of KNO <sub>3</sub> would be needed to saturate 200 grams of water at 70°C?		,	A) NaNO 3 C) NH4Cl	B) KNO₃ D) KCI	
<u> </u>	86 g <b>268 g</b> ble G. what change		Description of the Bound of the Section 1988 of the Following substances is most soluble at 50°C?		
will cause the solubility of KNO <sub>3</sub> (s) to increase?  A) decreasing the pressure B) increasing the pressure C) decreasing the temperature D) increasing the temperature			A) KClO3 C) NaCl Which compo	B) NH3  D) NH4Cl	
		<ul> <li>11. Which compound becomes less soluble in water as the temperature of the solution is increased?</li> <li>A) HCI</li> <li>B) KCI</li> <li>C) NaCI</li> <li>D) NH4CI</li> </ul>			

12. According to Reference Table G, what is the approximate difference between the amounts of KClO <sub>3</sub> and KNO <sub>3</sub> soluble in 100 grams of water at 40°C?			13. Base your answer to the following question on the diagram below which represents the solubility curve of salt X. The four points on the diagram represent four			
	A) 17 g	B) 22 g		olutions of salt X.		
	C) 47 g	D) 64 g	Which point represents the most concentrated solution of salt X?			
			A) A B) B	C) C		
			the following	Reference Table G, which of substances is least soluble ir water at 50°C?		
			A) NaCl	B) KCl		
			C) NH4Cl	D) HCl		
			15. Which compound decreases in solubility as the temperature of the solution is increased from 10°C to 50°C?			
			A) NH4Cl	B) NaCl		
			C) NH 3	D) NaNO3		

## Answer Key Solubility Curves

- 1. A A D D A C A C D A C
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.