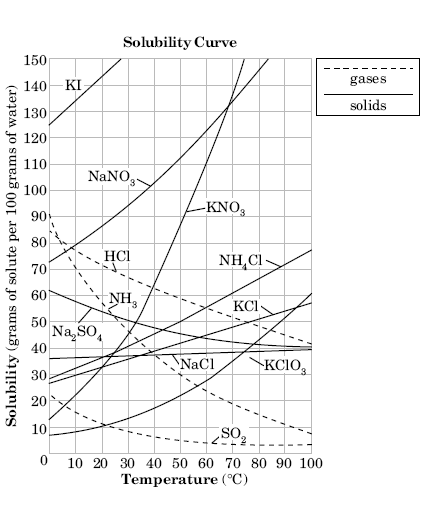
**Solubility Curves Practice**



**Solubility - the amount that can be dissolved.**

**Salt - Ionic Compound**

1. For the salts (solids), the overall trend is that as temperature   
   increases, solubility [increases or decreases?] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. For the gases, the overall trend is that as temperature increases,  
   solubility [increases or decreases?] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Which salt (solid) is the most soluble at 10oC? \_\_\_\_\_\_\_\_
4. Which salt (solid) is the least soluble at 50oC? \_\_\_\_\_\_\_\_
5. Which salt shows the least increase in solubility as temperature  
   increases? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Which salt shows the greatest increase in solubility as   
   temperature increases? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. How much KNO3 can be dissolved in 100 grams of water at   
   60oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. How much potassium chloride can be dissolved in 100 g of   
   water at 30oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. How much NH4Cl can be dissolved into **200 g of water** at   
   70oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. How much NaCl can be dissolved into **200 g of water**  at   
    90oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. How much potassium iodide can be dissolved in **300 g of water**  
    at OoC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. **Is the solution saturated, unsaturated, or supersaturated?**
    1. 85 g of KNO3 at 55oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    2. 100 g of NaNO3 at 30oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    3. 110 g of KNO3 at 60oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    4. 10 g of SO2 at 40oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    5. 62 g of NH3 at 10oC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_