SOLUBILITY CURVES Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer the following questions based on the solubility curve below.

1. Which salt is least soluble in water at 20 °C?
2. How many grams of potassium chloride can be dissolved in 200 g of water at 80 °C?
3. At 40 °C, how much potassium nitrate can be dissolved in 300 g of water?
4. Which salt shows the least change in solubility from 0 °- l00 °C?
5. At 30 °C, 90 g of sodium nitrate is dissolved in 100 g of water. Is this solution saturated, unsaturated or supersaturated?
6. A saturated solution of potassium chlorate is formed from one hundred grams of water. If the saturated solution is cooled from 80 °C to 50 °C,how many grams of precipitate are formed?
7. What compounds show a decrease in solubility from 0 ° to 100 °C?
8. Which salt is most soluble at 10 °C?
9. Which salt is least soluble at 50 °C?
10. Which salt is least soluble at 90 °C?