

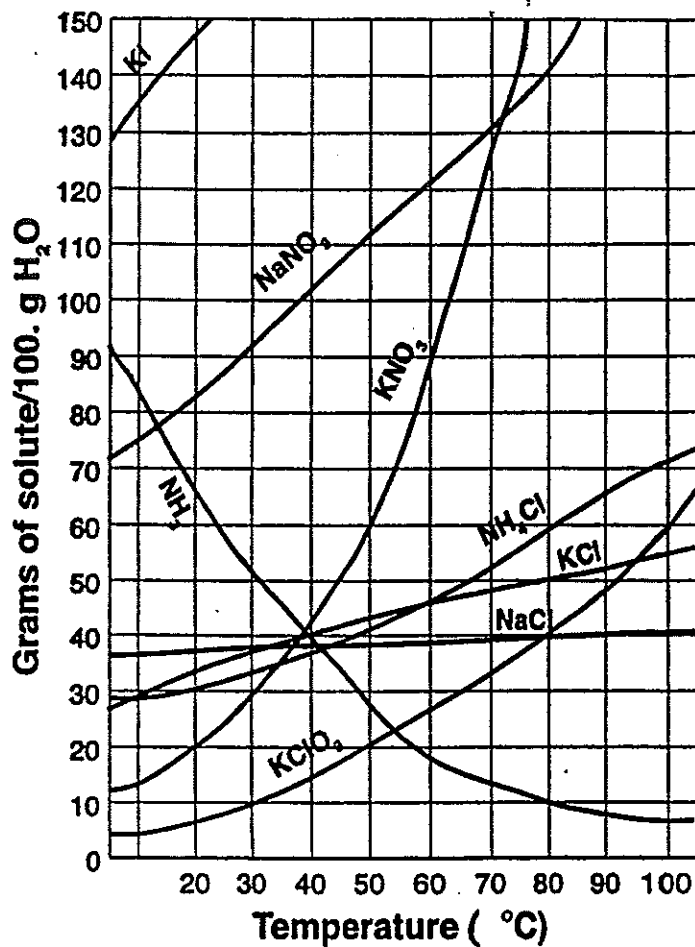
# SOLUBILITY CURVES

Name \_\_\_\_\_

*Weed*

Answer the following questions based on the solubility curve below.

- Which salt is least soluble in water at 20° C? \_\_\_\_\_
- How many grams of potassium chloride can be dissolved in 200 g of water at 80° C?  
\_\_\_\_\_
- At 40° C, how much potassium nitrate can be dissolved in 300 g of water? \_\_\_\_\_
- Which salt shows the least change in solubility from 0° - 100° C?  
\_\_\_\_\_
- At 30° C, 90 g of sodium nitrate is dissolved in 100 g of water. Is this solution saturated, unsaturated or supersaturated?  
\_\_\_\_\_



- 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? \_\_\_\_\_
- What compound shows a decrease in solubility from 0° to 100° C? \_\_\_\_\_
- Which salt is most soluble at 10° C? \_\_\_\_\_
- Which salt is least soluble at 50° C? \_\_\_\_\_
- Which salt is least soluble at 90° C? \_\_\_\_\_