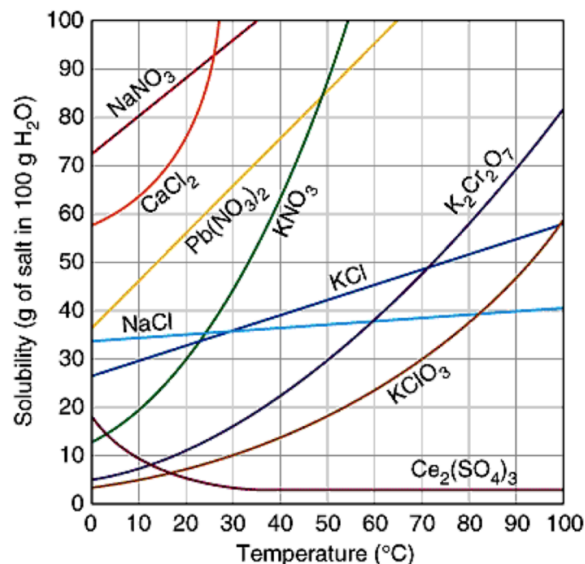


Name: \_\_\_\_\_

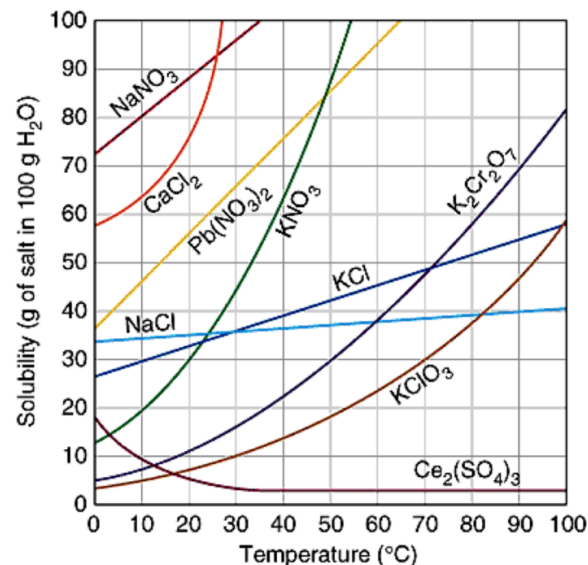
## Solubility Curve Worksheet



1. How does the solubility of a solid solute generally change as temperature increases?
2. Which substance has a decrease in solubility as the temperature increases?
3. How many grams of CaCl<sub>2</sub> will dissolve in 100 grams of water at 10°C?
4. At which temperature can 30 grams of KClO<sub>3</sub> be dissolved in 100 grams of water?

Name: \_\_\_\_\_

## Solubility Curve Worksheet



1. How does the solubility of a solid solute generally change as temperature increases?
2. Which substance has a decrease in solubility as the temperature increases?
3. How many grams of CaCl<sub>2</sub> will dissolve in 100 grams of water at 10°C?

4. At which temperature can 30 grams of  $\text{KClO}_3$  be dissolved in 100 grams of water?
5. How would you classify a solution that contains 35 grams of  $\text{NaCl}$  in 100 grams of water at  $30^\circ\text{C}$ ?
  - a. unsaturated
  - b. saturated
  - c. supersaturated
6. How would you classify a solution that contains 70 grams of  $\text{NaNO}_3$  in 100 g of water at  $20^\circ\text{C}$ ?
  - a. unsaturated
  - b. saturated
  - c. supersaturated
7. If you add more solute to a solution containing 20 grams of  $\text{K}_2\text{Cr}_2\text{O}_7$  in 100 grams of water at  $90^\circ\text{C}$ , what would happen?
8. If you add more solute to a solution containing 50 grams of  $\text{KCl}$  in 100 grams of water at  $60^\circ\text{C}$ , what would happen?
9. If you add more solute to a solution containing 75 grams of  $\text{Pb}(\text{NO}_3)_2$  in 100 grams of water at  $40^\circ\text{C}$ , what would happen?
10. If a solution containing 45 grams of  $\text{KCl}$  is heated from  $60^\circ\text{C}$  to  $80^\circ\text{C}$ , it would go from a \_\_\_\_\_ solution to a \_\_\_\_\_ solution.
  - a. unsaturated, saturated
  - b. saturated, unsaturated
  - c. supersaturated, saturated
  - d. saturated, supersaturated
5. How would you classify a solution that contains 35 grams of  $\text{NaCl}$  in 100 grams of water at  $30^\circ\text{C}$ ?
  - a. unsaturated
  - b. saturated
  - c. supersaturated
6. How would you classify a solution that contains 70 grams of  $\text{NaNO}_3$  in 100 g of water at  $20^\circ\text{C}$ ?
  - a. unsaturated
  - b. saturated
  - c. supersaturated
7. If you add more solute to a solution containing 20 grams of  $\text{K}_2\text{Cr}_2\text{O}_7$  in 100 grams of water at  $90^\circ\text{C}$ , what would happen?

8. If you add more solute to a solution containing 50 grams of KCl in 100 grams of water at 60°C, what would happen?
9. If you add more solute to a solution containing 75 grams of  $\text{Pb}(\text{NO}_3)_2$  in 100 grams of water at 40°C, what would happen?
10. If a solution containing 45 grams of KCl is heated from 60°C to 80°C, it would go from a \_\_\_\_\_ solution to a \_\_\_\_\_ solution.
- a. unsaturated, saturated
  - b. saturated, unsaturated
  - c. supersaturated, saturated
  - d. saturated, supersaturated