Name: _____ Date: 3-21-19

Aim: I can describe parts of a solution and read a solubility curve diagram. (NOTES)

Do Now: Phase Change Diagram Worksheet

Notes:

Solutions (homogeneous mixture **)**

- a mixture of two or more substances that is blended throughout
- can be physically separated
- composed of a solute and a solvent

  - Solute- the substance in the smallest amount and the one that dissolves in the solvent
  - Solvent- the substance in the larger amount that dissolves the solute

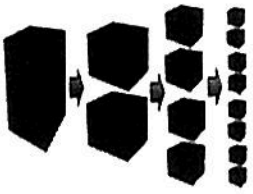
3·22·19 (notes)

Concentration

- the amount of solute dissolved in a solvent at a given temperature
  - described as **dilute** if it has a low concentration of solute dissolved in the solvent at that temperature
  - described as **saturated** if it has the maximum amount of solute dissolved in the solvent at that temperature
  - described as **supersaturated** if contains more dissolved solute than normally possible

Increasing the Rate of Dissolving

1. Increase Surface area
2. heat it up (increase temperature)
3. stir it



3.22.19
(notes)

Reading a Solubility Curve Fun!

At 0 °C, which substance is the least soluble?

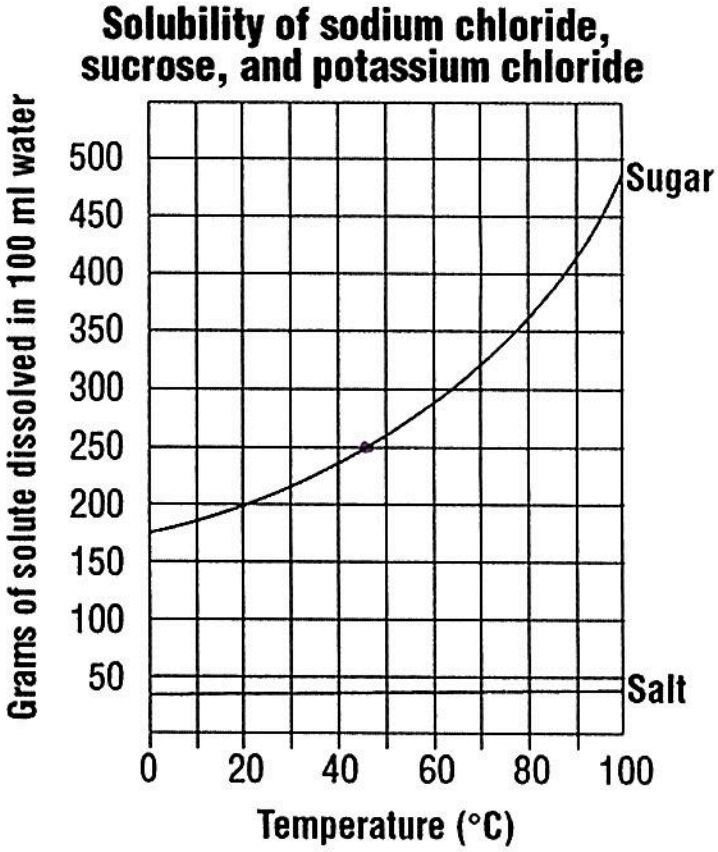
Salt

40 g

At 0 °C, which substance is the most soluble?

Sugar

175 g



1. How much sugar dissolves in 100 mL of water at 50°C?

260 g dissolves in 100 mL of water at 50°C

2. How much salt dissolves in 100 mL of water at 50°C?

40 g dissolves at 50°C in 100 mL of water