

CONCEPT: INTRO TO HENRY'S LAW

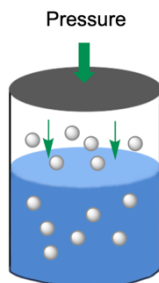
- The solubility of a dissolved gas is _____ proportional to the partial pressure of that gas over the liquid.

Henry's Law

Pressure–Solubility Relationship

As the **Pressure** _____ the solubility of a gas _____.

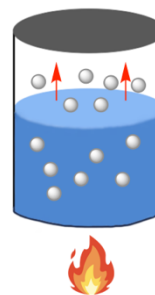
- ☐ Changes in Pressure have _____ effect on solids or liquids.



Temperature–Solubility Relationship

As the **Temperature** _____ the solubility of a gas _____.

- ☐ As the Temperature _____ the solubility of solids _____.



EXAMPLE: In general, as the temperature increases, the solubility of a gas in a given liquid _____, and the solubility of most solids in a given liquid _____.

- a) Increases, increases
- b) Decreases, increases
- c) Increases, decreases
- d) Decreases, decreases

PRACTICE: Which of the following is true for the solubility of NaCl (s) and CH₄ (g) in water?

- a) Increasing the temperature will increase the solubility of CH₄.
- b) Increasing the temperature will decrease the solubility of NaCl.
- c) Both NaCl and CH₄ are quite soluble in water.
- d) Neither NaCl nor CH₄ are soluble in water.
- e) None of the above.