

“I Can” Statements

1. Distinguish between melting and dissolving
2. Identify a saturated solution and an unsaturated solution
3. Describe the characteristics of a solution
4. Express the concentration of a solution
5. Measure the concentration of a solution
6. Compare the concentrations of two or more solutions.
7. Define solubility
8. Determine if various solutes are soluble in various solvents.
9. Compare the solubility of substances when given a solubility graph
10. Use a solubility graph to predict the following:
 - i. Changes in maximum mass of dissolved solute due to changes in temperature
 - ii. Mass of precipitate formed when a saturated solution is cooled
 - iii. Volume of solvent required to dissolve a given mass of solute at a certain temperature
 - iv. Mass of additional solute that will dissolve in a given volume of solvent at any temperature in the graphic range
 - v. Minimum temperature required to dissolve all of a given mass of solute in a given volume of solvent
11. Describe the general solubility of gases in water as temperature changes
12. Relate the solubility of substances in water to the common everyday topics of: acid rain, formation of limestone caves, sink-holes, hard water, and drinking water composition.