

Project WET Correlations to the Secondary Chemistry Core Curriculum

PEOPLE OF THE BOG - Pg 89
Standard VI Objective 3 e

THE PUCKER EFFECT - Pg 338
Standard VI Objective 3 e

WHERE ARE THE FROGS? – Pg 279
Standard VI Objective 3 e

No Correlations to Standards I - V

<p>Standard VI: Students will understand the properties that describe solutions in terms of concentration, solutes, solvents, and behaviors of acids and bases.</p>	<p>Objective 1: Describe factors affecting the process of dissolving and evaluate the effects that changed in concentrations have on solutions.</p>	a. Use the terms solute and solvent in describing a solution.	
		b. Sketch a solution at the particle level.	
		c. Describe the relative amount of solute particles in concentrated and dilute solutions and express concentration in terms of molarity and molality.	
		d. Design and conduct an experiment to determine the factors affecting the relative rate of dissolution.	
		e. Relate the concept of parts per million to relevant environmental issues found through research.	
	<p>Objective 2: Summarize the quantitative and qualitative effects of colligative properties on a solution when a solute is added.</p>	a. Identify the colligative properties of a solution.	
		b. Measure change in boiling and/or freezing point of a solvent when a solute is added.	
		c. Describe how colligative properties affect the behavior of solutions in everyday applications.	
	<p>Objective 3: Differentiate between acids and bases in terms of hydrogen ion concentration.</p>	a. Relate hydrogen ion concentration to pH values and to the terms acidic, basic, or neutral.	
		b. Using an indicator, measure the pH of common household solutions and standard laboratory solutions, and identify them as acids or bases.	
		c. Determine the concentration of an acid or a base using simple acid-base titration.	
		d. Research and report on the uses of acids and bases in industry, agriculture, medicine, mining, manufacturing, or construction.	
		e. Evaluate mechanisms by which pollutants modify the pH of various environments.	<p>People of the Bog - Pg 89 The Pucker Effect - Pg 338 Where are the Frogs – Pg 279</p>