

## Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
Chemistry Unit 16 – Acids and Bases	10 – 12	6 <sup>th</sup> cycle	6 days
TEKS/Student Expectations		Examples/Specifications:	
12A - demonstrate and explain effects of temperature and the nature of solid solutes on the solubility of solids		12A – identify types of solutions and the parts of a solution.	
12B - develop general rules for solubility through investigations with aqueous solutions		12B & 13A – interpret solubility graphs and predict precipitation.	
13A -compare unsaturated, saturated, and supersaturated solutions		12C & 13B – relate the properties of water to its uses.	
12C - evaluate the significance of water as a solvent in living organisms and in the environment			
13B - interpret relationships among ionic and covalent compounds, electrical conductivity, and colligative properties of water			
1A - demonstrate safe practices during field and laboratory investigations.		1A & B – conduct lab experiments safely and follow instructor guidelines regarding appropriate disposal of materials.	
1B - make wise choices in the use and conservation of resources and the disposal or recycling of materials.			
2A - plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting equipment and technology		2A – use the scientific method when planning a controlled experiment, including the identification and selection of appropriate equipment, and the development of a suitable hypothesis.	
2B - collect data and make measurements with precision		2B & C– using the metric system, measure quantities to the correct number of significant digits using scientific notation as appropriate. Convert between units as needed and round to the correct number of digits when reporting a calculated answer.	
2C - express and manipulate chemical quantities using scientific conventions and mathematical procedures such as dimensional analysis, scientific notation, and significant figures			
2D - organize, analyze, evaluate, make inferences, and predict		2D & E – apply the steps of the scientific method to lab investigations.	

trends from data		
2E - communicate valid conclusions		
<b>Language of Instruction:</b>		<b>Instructional Resources/Textbook Correlations:</b>
Capillarity Dissociation Hydrogen bonding Saturation Surface tension Solvent Solute Solution		Glencoe Chemistry: Concepts and Applications – chapter 13 Density of water lab Solubility and temperature lab
		<b>Weblinks/Other Resources:</b>
<b>Evaluation/External Assessment/Local Assessment:</b>		<b>Best Instruction Timeline:</b>
TAKS test (1.1A, 1.2A-D, 4.8A) Teacher-designed test Laboratory reports and performance Quizzes Daily work Homework		2 days – properties of water and lab 2 days – properties of solutions and lab 2 days – review and assessment