

Science Scope and Sequence - Chemistry

Term: 4th Nine Weeks

Taught	Term	TAKS Obj	Curriculum Sequence TEKS/SE and Alignment Objectives		Inst. Level	TAKS
Strand: Chemistry/Scientific Processes						
Definition: "Lesson" in the spreadsheet below includes instruction, application, practice and assessment (through demonstration, quiz and/or text)						
4th nine weeks: pH, gases, stoichiometry, nuclear chemistry (Ch. 16, 10, 11, 9, 22 in Holt Modern Chemistry)						
"Term" = Week number in the school year (Week # excludes weeks of 11/19, 12/24, 12/31, 3/17, 6/2)						
TEKS Strand: Acids and Bases						
	4	4	IPC 9B	Relate the concentration of ions in a solution to physical and chemical properties such as pH, electrolytic behavior, and reactivity.	RMT	T11
	4	4	Chem 14C	Identify the characteristics of a neutralization reaction.	IDM	
TEKS Strand: Gases						
	4	4	Chem 7A	Describe interrelationships among temperature, particle number, pressure, and volume of gases contained within a closed system.	IDM	
	4	4	Chem 7B	Illustrate the data obtained from investigations with gases in a closed system and determine if the data are consistent with the Universal Gas Law.	IDM	
TEKS Strand: Balanced Chemical Equations						
	4	4	Chem 11B	Demonstrate the use of symbols, formulas, and equation in describing interactions of matter such as chemical and nuclear reactions.	IDM	
	4	4	Chem 11C	Explain and balance chemical and nuclear equations using number of atoms, masses, and charge.	IDM	

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TEKS Strand: Nuclear Fission/Fusion						
	4	4	Chem 9A	Compare fission and fusion reactions in terms of the masses of the reactants and products and the amount of energy released in the nuclear reactions.	DM	
	4	4	Chem 9B	Investigate radioactive elements to determine half-life.	IDM	
	4	4	Chem 9C	Evaluate the commercial use of nuclear energy and medical uses of radioisotopes.	IDM	
	4	4	Chem 9D	Evaluate environmental issues associated with the storage, containment, and disposal of nuclear wastes.	IDM	
				KEY: I = Introduced -- the objective is introduced to the student		
				T = Taught -- the objective is presented		
				D = Developed -- the objective is developed through specific activities		
				M = Mastered -- the objective should be mastered (tested, etc.)		
				T10 = Tested on 10th grade TAKS		
				T11 = Tested on 11th grade TAKS		