

Fresno Unified School District - Chemistry Pacing Guide – March 2006

	Topic	CA Standard	Book References	Suggested Hours	COS Page
<u>Introduction:</u>	Intro to Chemistry	IE b, c, g, j	Sec. 1.1	10	7, 8
	Lab Safety		R80		
	Scientific Method	IE f, n	Sec. 1.3		7
	Periodic Table Introduction	1b, c	Sec. 4.3, 6.1		10
	Measurements	IE a	Chapter 3		8
	Classification of Matter		Chapter 2		
<u>Atomic Structure:</u> Atomic & Molecular Structure, Periodic Table.	Position of element on periodic table	1a	Sec 4.2	10	9
	Nucleus contains most of the mass	1e	Sec. 4.2, 4.3		9
	Identify metals and not metals	1b	Sec. 6.1		10
	Ionization energy, EN, atomic radius	1c	Sec. 6.2, 6.3		10
	Valence Electrons	1d	Sec. 7.1		10
<u>Bonding:</u>	Bonds between atoms	2a	Chapter 7, Sec. 8.1	20	12
	Ionic Bonds	2c	Chapter 7		12
	Covalent bonds	2b	Sec. 8.1, 8.2		13
	Lewis dot Structures	2e	Sec. 8.2		13
Benchmark 1	Week of Oct 16-20			40	
	Topic	CA Standard	Book References	Suggested Hours	COS Page
<u>The Mole:</u> The mole/ Chemical reactions	Balanced equations	3a	Sec. 11.1	34	16
	Molar definition	3b	Sec. 10.1		15
	Molar number	3c	Sec. 10.1		15
	Molar mass	3d	Sec. 10.1,2		15
<u>Stoichiometry</u>	Calculations with balanced equations	3e	Sec 12.1,2		17
Benchmark 2	Week of Dec 11-15				
	Topic	CA Standard	Book References	Suggested Hours	COS Page
<u>Gases</u>	Liquids	2d	Sec. 13.2	20	23
	Intermolecular forces and liquids	2d	Sec. 8.4		22
	Motion of particles and pressure	4a	Sec 13.1		23
	Motion of particles and diffusion	4b	Sec. 13.1		23
	Gas laws	4cd	Sec. 14.1, 14.2		24
	STP	4d	Sec. 10.2		24
	Celsius vs. Kelvin	4e	Sec. 3.2		24
	Absolute zero	4f	Sec. 3.2		24

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<u>Solutions</u>	Solute, solvent	6a	Sec. 15.2	12	25
	Dissolving	6b	Sec. 15.2		25
	Dissolving vs. T and P	6c	Sec. 16.1		26
	Solution concentration, molarity	6d	Sec. 16.2		26
<u>Thermochemistry</u>	Motion of molecules	7a	Sec 17.1	20	20
	Exothermic vs endothermic	7b	Sec 17.1		20
	Change of states and energy	7c	Sec 17.3		21
	Specific heat	7d	Sec 17.1, 17.2		21
Benchmark 3	Week of March 19-23			52	
	Topic	CA Standard	Book References	Suggested Hours	COS Page
<u>Reaction Rates</u>	Reaction rates vs. concentration	8a	Sec 18.1	7	18-19
	Reaction rates vs. T and P	8b			
	Catalyst	8c			
	Chemical equilibrium	9b			
	LeChateliers's Principle	9a			
<u>Acids and Bases</u>	Observable Properties	5a	Sec. 19.1	5	27-28
	Hydrogen ion donating and accepting	5b	19.2		
	Strong vs. Weak acids and bases	5c	19.3		
	pH scale	5d	19.4		
<u>Nuclear Chemistry</u>	Nuclear Force	11a	Sec 25. 1	1	11
	Fission vs. fusion	11b	Sec. 25.3		
	Radioactive isotopes	11c	Sec. 25.2		
	Radioactivity	11d	Sec. 25.1		
	Damage by radiation	11e	Sec. 25.4		
<u>Organic Chemistry</u>	polymers	10 a	Sec 23.4, 24.3	1	
	Carbon bonding	10 b	Sec 22.1		
	Amino acids, proteins	10 c	Sec 24.3		
CST	April 23-May 11			14	
Teacher's Choice Research Topics Projects				30	
	Starred standards				