

AP Chemistry Homework Plan 2009

All problems are due the last school day of that week, even on short weeks. Problems should only be checked against the *solutions manual* after they have been tried on your own. The solutions manual should only be used to verify answers or techniques. There is little point in simply copying answers. Clues to answering a few of the *active learning questions* can be found online at www.mclaughlinweb.com – AP Chemistry – Information – Active Questions.

| Week | Dates | Topics | Assignment (always due the last school day of that week) |
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| 1 | Jan 20-23 19 th Holiday | Units, Atoms, History, Moles, Nomenclature, Solubility | Ch. 1: 4, 5a, 8, 32, 33d&f, 35d,e&f, 41c, 47, 53, 57, 62, 67 Ch. 2: 5, 22, 26, 31, 33, 43d&e, 47, 53a&c, 64, 67, 71 Ch. 3: 4, 8, 13, 18, 27, 29, 35, 57 Princeton Review: Chapter 5 |
| 2 | Jan 26 – Jan 30 | % Composition, Stoichiometry Theoretical Yield, Reaction Types | Ch. 3: 59a&c, 68b, 75, 81, 82, 87, 88, 94, 97, 105, 121 Ch. 4: 7, 9, 18, 19, 21b&c, 22, 24a,b&d, 27, 29b&d, 30d, 37a&b, 43a,c&e, 47, 55b&c, 61, 63 Princeton Review: Chapter 9 (pages 133 & 134 only) & Chapter 17 |
| 3 | Feb 2-6 | Gases Groups 1,2,13,14 | Ch. 5: 12, 14, 17, 26, 29, 36, 49, 51, 54, 59, 63, 66, 67, 69a&b, 72, 82, 85, 86, 112 Ch. 19: 2, 3, 8, 11, 17, 18, 24, 34, 42 Princeton Review: Chapter 6 |
| 4 | Feb 9-12 13 th Holiday | Thermochemistry | Ch. 6: 2, 13, 14, 33, 35a&b, 38b, 45, 50, 64, 66a-d, 68a&b, 91 Ch. 16: 19, 24, 31, 39, 45b, 58, 62 Princeton Review: Chapter 8 |
| 5 | Feb 17-20 16 th Holiday | Atomic Structure Groups 3-12, 15-18 | Ch. 7: 4, 5, 31, 45a, 73, 80, 85, 90a,b&c, 93, 97, 99 Ch 20: 7, 12, 15, 22, 35 Ch. 21: 12, 13a&b, 14a&b, 15a, 17a&b, 25, 73 Princeton Review: Chapter 3 |
| 6 | Feb 23-27 | Lewis, Molecular Geometry, Inter- molecular/particle Forces | Ch. 8: 13, 25a-c, 36a&b, 38, 43a,c&e, 51, 54, 67a-d, 68a, 73b, 79, 81a-c, 99 Ch. 9: 5, 7, 27a,c,d&g-k Princeton Review: Chapter 4 |

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| 7 | March 2-6 | Inter-molecular/particle Forces, Solutions, Colligative Properties | Ch. 10: 1, 3, 5, 6, 12, 23, 29e-g, 35a-g Ch. 11: Green Box Review Question (pg. 517) 1; 11, 25, 30, 38, 45, 46, 57, 64, 66 Princeton Review: Chapter 7 & Chapter 9 |
| 8 | March 9-13 | Reaction Kinetics, Organic Chemistry | Ch. 12: 11, 15, 17, 20, 25, 27, 35, 50, 51, 65 Ch. 22: Spend your HW time skimming this Chapter, then do: 13, 18, 47, 48 Princeton Review: Chapter 12 & Chapter 16 (Possible: US National Chemistry Olympiad Qualifying Test – In Class) |
| 9 | March 16-20 End Term 3 | Final Exam Term 3 Organic | Exam 1: Full length written AP final; Full length multiple choice AP final. Ch. 22: Simply skim and be familiar with the basic structure of proteins, carbohydrates, nucleic acids & lipids. This material pops up on the multiple choice section of the AP Exam |
| 10 | March 23-27 | Equilibrium, Nuclear | Ch. 13: 12, 13, 16, 21, 23, 26, 45, 57, 58, 59, 62 Ch. 18: 11, 14, 20, 53, 60 Princeton Review: Chapter 10 & Chapter 14 (Off to Spring Break March 28 - April 6) |
| 11 | April 6-10 | Acids & Bases | Ch 14: 29, 33, 39, 43a&b, 49, 50, 51, 55, 59, 63, 94, 100, 113, 119 Exam 2: Full length written AP final (Friday) Princeton Review: Chapter 11 |
| 12 | April 13-17 | Buffers & Titrations | Exam 2: Full length MC AP final (Monday) Ch. 15: 14, 15, 21, 23, 37, 41, 51, 61, 77, 80 Princeton Review: Chapter 11 |
| 13 | April 20-24 | Electrochemistry | Ch. 17: 14a-g, 29, 35, 46, 57, 77a&c, 81, 84, 85, 124 Princeton Review: Chapter 13 |
| 14 | April 27 – May 1 | Catch-Up Week | TBA |
| 15 | May 4-8 | Final Exam Term 4 | Exam 3: Full length AP Test graded AP style |
| 16 | May 11-15 | AP Chemistry Exam! | Actual AP Test is on Tuesday this week, May 12 , during the morning session, 7:45AM , at SMHS. After this, we work on Projects the rest of the term. |