

Advanced Placement Chemistry: 2nd Semester Schedule
Zumdahl, *Chemistry*, 7th edition

Problems are due on the day after the test for that unit. *Work must be original, complete, and done in detail for credit.* Homework assignments must be organized and legible in order to receive credit. All problem numbers must be clearly labeled and circled, boxed or highlighted so they are easy to find. DO NOT place problems on the right side of paper in empty space. I will not give credit for these problems.

Chapter 12 – Chemical Kinetics

Read pages 527-565

Problems – 3, 11, 17, 23, 25, 29, 33, 37, 43, 49, 51, 53, 57, 59, 65, 89

Laboratory experiment – Rates of chemical reactions – Iodination of acetone

Chapter 13 – Chemical Equilibrium

Read pages 579-611

Problems – 9, 16, 17, 21, 25, 30, 33, 37, 41, 44, 45, 47, 53, 57, 61, 93

Lab experiment – Determination of an Equilibrium Constant

Chapters 12 and 13 Test – _____

Chapter 14 – Acids and Bases

Read pages 623-669

Problems – 21, 29, 37, 41, 57, 61, 63, 69, 71, 75, 82, 85, 91, 95, 107, 161

Lab experiment: Determination of the dissociation constant of a weak acid

Chapter 14 Test – _____

Chapter 15 – Applications of Aqueous Equilibria

Read pages 681-737

Problems – 5, 11, 19, 23, 29, 33, 35, 37, 39, 43, 45, 55, 65, 73, 77, 101, 151

Lab experiment: Titration of a Polyprotic acid

Chapter 15 Test – _____

Chapter 16 – Entropy, Free Energy and Spontaneity

Read pages 749-780

Problems – 17, 21, 23, 25, 33, 39, 43, 51, 53, 57, 59, 65, 71, 97

Lab experiment: Entropy of reaction

Chapter 16 Test – _____

Chapter 17 – Electrochemistry

Read pages 791-828

Problems – 11, 17, 25, 29, 31, 33, 39, 42, 46, 59, 61, 69, 79, 81, 83, 125

Lab Experiment: Electrolytic Cells

Chapter 17 Test – _____

Review for AP Exam: _____

Final: _____

AP Chemistry Exam: 8 am, May 2nd