

## ADVANCED PLACEMENT CHEMISTRY SUMMER PROJECT 2009 (STORCH)

Advanced Placement Chemistry is a second year chemistry course. It is fast paced and will assume a solid working knowledge of the concepts covered in Chapters 1 to 22 your Honors Chemistry text from last year. These concepts are covered in greater depth in Chapters 1 to 10 of your AP Chemistry text (“Chemistry” by Steven S. Zumdahl, 7<sup>th</sup> Edition, copyright 2007) and Chapters 1 to 4 of The Ultimate Chemical Equations Handbook by George Hague and Jane Smith. You will be given a series of tests on the material covered in Zumdahl chapters 1 to 10 and Equations Handbook chapters 1 to 4 (see chapter listing below), starting the first week of the 2009 – 20010 school year. I strongly suggest you get a copy of this text before leaving for vacation and use it throughout the summer to review this material. Another good source of review material would be “BARRON’S – How to prepare for the AP Chemistry Test” or a similar book.

**On the first full day of school (Tuesday), the following written assignment is due: Zumdahl CH 1, answer End of Chapter odd numbered questions #23 to # 35 and #s 51, 53, 55, 59, and 69; Zumdahl CH 2, answer all odd End of Chapter questions from # 35 to # 69, where appropriate only answer part (a) and (b) of the question; Hague and Smith, complete Chapter Exercises 1-1, 2-1, 3-1, 3-2, 3-3, 4-1, 4-2, and 4-3. For mathematical problems, you are expected to show all supporting work.**

We must cover an enormous amount of new material in a limited time frame next school year. We cannot afford to be slowed down by the need for extensive review of first year material. Our success depends on our ability to hit the ground running in August. I will be ready and look forward to working with you as we explore the world of college chemistry.

Sincerely,  
Mr. Storch

First year chemistry review topics from Chemistry; Steven Zumdahl	Review topics from The Ultimate Chemical Equations Handbook; Hague and Smith
Chapter 1: Chemical Foundations	Chapter 1: Symbols and Nomenclature
Chapter 2: Atoms, Molecules, and Ions	Chapter 2: Simple Inorganic Formulas and Nomenclature
Chapter 3: Stoichiometry	Chapter 3: Oxidation Numbers: Anions and Cations
Chapter 4: Types of Chemical Reactions and Solution Stoichiometry	Chapter 4: Ternary Nomenclature of Acids and Salts
Chapter 5: Gases	
Chapter 6: Thermochemistry	
Chapter 7: Atomic Structure and Periodicity	
Chapter 8: Bonding: General Concepts	
Chapter 9: Covalent Bonding: Orbitals	
Chapter 10: Liquids and Solutions	