



## AP Chemistry

Dr. K. Basu

### Summer Assignment

Over the summer, AP Chemistry students are required to complete some review of first year chemistry topics. Our textbook is *Chemistry: The Molecular Nature of Matter* (7<sup>th</sup> edition, copyright 2014) by Neil Jespersen and Alison Hyslop from John Wiley and Sons, Inc. (ISBN: 978-1-118-51646-1). There is also a binder edition (ISBN: 978-1-118-41392-0) and an eBook (ISBN: 978-11-11830036-2) available if you prefer. Throughout the year, we will do many problems from the textbook. The problems may be different in earlier editions, so it is important to get the correct one. If you do not already have a copy of the textbook, they are available from Amazon or Chegg for purchase and rental (note that most rentals are per semester, not per year).

Do the reading and problems listed below (preferably on paper) by the first day of class, labeling them clearly. These problems will count as 3 homework grades. Note that the answers to all Practice Exercises (within the chapter) and Review Problems in blue (at the end of each chapter) are in the back of the book, so you must show supporting work to receive credit. There will be a test on this material within the first 2-3 weeks of school. Students will have the opportunity to ask questions before the test and an answer key will be provided.

Chapter 0 – Read sections 4&5 only.

Review Questions – 28(a&b)

Review Problems – 41

Chapter 1 – Read all sections.

Review Questions – 10, 14, 17, 19, 23(b-e), 28, 29, 32, 34

Review Problems – 43(a,b,e), 45c, 53(b,d), 55e, 59c, 69, 79

Chapter 2 – Read all sections.

Review Questions – 3, 8, 15, 21, 28, 32, 40, 45b, 50

Review Problems – 91f, 95(c,e), 97e, 99(b,e), 101(b,c), 103a, 105(b,c), 107(a-e), 109(a,e), 111(b,d)

Chapter 3 – Read all sections.

Review Questions – 3, 19, 25

Review Problems – 35a, 37d, 41, 43, 53(a,c), 65, 69b, 85, 89, 97, 101(c,e), 103d, 117(a,c), 127, 133