



## AP Chemistry

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### Summer Assignment

Over the summer, students in AP Chemistry are required to complete the reading and problems listed below. Our textbook is *Chemistry Matter and Its Changes* (5<sup>th</sup> edition) by Brady and Senese from John Wiley and Sons, Inc. (ISBN: 978-0-470-12094-1, copyright 2009). Throughout the year, we will do many problems from the textbook. The problems may be different in earlier editions, so it is important to buy the correct one. If you do not already have a copy of the textbook, they are available from Amazon or Chegg (and they are not expensive).

Read Chapters 1-3 and do the problems by the first day of class. Each chapter's problems will count as 1 homework grade. Please do the problems in order and label them clearly.

Material in these three chapters should be a review of topics from first-year Chemistry. The answers to all Practice Exercises (within the chapter) and Review Problems in **red** (at the end of each chapter) are in the back of the book, so you must show supporting work to receive credit for the problems. There will be a test on this material within the first two weeks of school, however students will have the opportunity to ask questions about it before the test.

#### Chapter 1 – Fundamental Concepts and Units of Measurement

Review Questions – 5, 7, 12, 15(b-e), 19-21, 23

Review Problems – 26(a,b,&e), 34, 36(b&d), 38e, 40c, 50, 62

#### Chapter 2 – Elements, Compounds, and Chemical Reactions

Review Questions – 11(a&b), 14, 19, 26, 32, 39, 50, 57, 65, 70b

Review Problems – 86, 104e, 106(c&e), 108e, 110(b&c), 112(b&e), 114a, 116(b&c), 118(a-e), 120(a&e), 122(b&d)

#### Chapter 3 – The Mole

Review Questions – 4, 12, 22

Review Problems – 27, 35(a&c), 49, 55a, 57c, 61, 65c, 77(b&c), 83, 85, 93, 101d, 103(c&e), 105, 111(a&c), 119, 125