

Advanced Placement Chemistry
SUMMER ASSIGNMENT

This assignment serves as an introduction to the AP Chemistry course offered at R-FH. The textbook is “Chemistry – The Central Science” and it will be utilized for the summer assignment.

DO NOT TYPE THE NOTES; THEY MUST BE HANDWRITTEN

I. Chapter 1 – Matter and Measurement

- **Read and take notes.** Include all vocabulary and key equations that are highlighted at the end of the chapter (pages 30-31).

II. Chapter 2 – Atoms, Molecules and Ions

- **Read and take notes.** Include all vocabulary that is highlighted at the end of the chapter (pages 67-68).
- Complete exercises #2.26, 2.32, 2.38, 2.50, 2.58, 2.66, 2.70, 2.72, 2.76.

III. Chapter 3 - Stoichiometry

- **Read and take notes.** Include all vocabulary and key equations that are highlighted at the end of the chapter (page 104).
- Complete exercises #3.20, 3.34, 3.38, 3.48, 3.52, 3.64, 3.76, 3.82, 3.84. ALL WORK MUST BE SHOWN in order to receive full credit.

COMMIT TO MEMORY and PRINT the following tables. Please place them in your binder for reference throughout the year.

<http://wps.prenhall.com/wps/media/objects/165/169060/tool0401.gif>

<http://wps.prenhall.com/wps/media/objects/165/169060/tool0402.gif>

http://wps.prenhall.com/wps/media/objects/165/169060/tool_g03.gif

PRINT the following tables and place them in your binder for reference throughout the year.

http://wps.prenhall.com/wps/media/objects/165/169060/tool_g01.gif

<http://www.adriandingleschemistrypages.com/wp-content/uploads/2014/04/AP-Data-Packet-2013-14.pdf>

It is a good idea to visit the following websites that we will be using as references throughout the year.

<https://apstudent.collegeboard.org/apcourse/ap-chemistry/course-details>

<https://www.adriandingleschemistrypages.com/>

The assignment is due the first day of class in September. There will be a test on all of the material covered in the chapters and on the tables during the first few days of class. Enjoy your summer vacation! We will start from the beginning with a comprehensive review in September.

Sincerely,
Mrs. Haughwout

Materials:

The following text is utilized in the course:

- Brown, Theodore E., H. Eugene LeMay, Bruce E. Bursten and Patrick M. Woodward. *Chemistry: The Central Science. 12th Edition (2012)*
Upper Saddle River, NJ: Prentice Hall.

The following laboratory manuals are utilized in the course:

- Brown, Theodore E., H. Eugene LeMay, and Bruce E. Bursten. *Chemistry: The Central Science. Laboratory Experiments - 9th Edition, 2003.*
Upper Saddle River, NJ: Prentice Hall.
- Vonderbrink, Sally Ann. *Laboratory Experiments for Advanced Placement Chemistry.* Batavia, Ill, Flinn Scientific
- Jack Randall, *Advanced Chemistry with Vernier.*
- College Board, *AP Chemistry Guided-Inquiry Experiments: Applying the Science Practices Teacher Manual.*

Required Daily Class Materials:

- 3-ring binder with dividers and loose-leaf paper (stay organized!)
- Graphing calculator
- Carbon copy laboratory notebook
(http://www.amazon.com/Student-Lab-Notebook-Spiral-duplicate/dp/1930882742/ref=sr_1_1?s=books&ie=UTF8&qid=1432131325&sr=1-1&keywords=carbon+copy+lab+notebook)
- Reference tables
- Pens/Pencils/Highlighters
- Textbook
- AP Chemistry Crash Course, 2nd Edition

https://www.amazon.com/Chemistry-Crash-Course-Advanced-Placement/dp/0738611549/ref=la_B001JSDOPA_1_2?s=books&ie=UTF8&qid=1388943531&sr=1-2

- The Princeton Review, *Cracking the AP Chemistry Exam, 2019 Edition*
https://www.amazon.com/Cracking-Chemistry-Exam-2019-Preparation/dp/1524758000/ref=sr_1_2?ie=UTF8&qid=1525966069&sr=8-2&keywords=AP+CHEMISTRY+PRINCETON+REVIEW+2019