

AP Chemistry
Summer Work 2018

Objective: The reason for summer work is to review a few of the basic concepts that were learned in general chemistry and learn how to use the online HW system. It is purely for your preparation in the areas of naming compounds, stoichiometry, density and empirical formulas.

Text: *Chemistry: The Central Science* by Brown, LeMay and Bursten, **14th Edition**. You will receive an e-book when you sign up for the homework system, however, you must be online to use it (although you can download parts of the book for offline use). It is up to you if you want to supplement the ebook with a paper one. You must download “Pearson eText” App to your iPad to access the book.

Part I: Sign up for Homework System (complete by June 16, 2018)

1. Register at <https://www.pearsonmylabandmastering.com/northamerica/masteringchemistry/>
You will see the “Student” button under “Register Now”
2. Obtain the three things that it says you will need; your course ID is MCMOSER62903
3. Follow the directions: enter the course ID; you will need to buy access. Make sure to choose the correct option of text AND homework system access. Choose the correct text book; it should be the book listed above 14th Ed.
4. Accept - Pearson License Agreement; finish making an account.
5. Login to Mastering Chemistry using the same link as above (click login instead of register) and find five assignments (change calendar to September) called: Introduction to Mastering Chemistry, Summer Work (Last Year Review), Ch 4 Problem Set, Ch 4 Concept Development and two Dynamic Study Modules.
6. Download the app called “Pearson eText” to your iPad. Open it and login with the credentials you just created; you should see the book there.

Part II: Explore the Assignments

1. Complete the introduction assignment before school starts. This assignment teaches you the features of the online system by asking you to explore the types of questions as well as purposefully put in wrong answers to learn how you will receive feedback.
2. Do the summer work assignment. This is a review of the things you learned junior year that I expect at least familiarity with when you come to class day one. Completion of the assignment is optional, but if you do complete it you will receive credit for it. There is not a single problem on this assignment that you have not already learned how to do, so if you know how to do them, skip them (if you don't care about credit) or do for practice or use them to learn the computer's response to wrong answers! I encourage you to work in groups...some summer AP chemistry class bonding time. (yes...pun intended! ☺) *There will be a test with stoichiometry and empirical formula questions in the second or third week.*

In an effort to make the summer work a little more enjoyable, you may exercise the *alternative* method for submitting summer work: the artistic impression form. You may create a poster, short story, comic strip, video or other form of artistic impression displaying you understand the concepts listed in the opening paragraph (naming compounds, stoichiometry, density and empirical formulas). There is a catch...the science must be just as good, just as complete and just as well communicated as a non-artistic form of submission to receive credit for the assignment.

3. Explore the assignments for the first unit (Ch 4). The assignments are of three distinct styles:

Concept Development: These questions are conceptual in format and also are designed as tutorials to guide your learning. I would start with these first.

Problem Sets: These are designed to teach mathematical based problem solving skills and applications of the equations and formulas in the chapter.

Dynamic Study Modules (DSM): a tutorial/test review for each chapter to help prepare for exams.

The assignments already listed (Ch 4) will be the first unit; you could come to class the first day and learn everything you need to after that. BUT the learning curve might be a little higher. So if you want to explore the assignments and practice learning physics, you would make that curve a little shallower for a few minutes of summer time preparation.

Questions/problems? My email = rmoser@marisths.org