

June 2017

Dear Future AP Chemistry Student:

I sincerely hope that the summer brings you time to relax, recharge and expand your intellectual spirit.

In preparation for your Advanced Placement Chemistry Class at Cornelia Connelly School, there is a summer assignment. You will need your textbook (*Chemistry- A Molecular Approach*, AP Edition, Third Edition, by Nivaldo J. Tro, ISBN-13: 978-0133099942, ISBN-10: 0133099946) to do the assignment. The text can be purchased new or used, from our school bookstore, another student, or Amazon. The cost for a used textbook should be about \$100. A hard copy textbook is required for the course. You will also obtain access to an online version of the book through Mastering Chemistry which is an online homework program that you will be signing up for. Please also purchase the review book entitled *AP® Chemistry Crash Course Book* by Adrian Dingle (ISBN-13: 978-0738611549; ISBN-10: 0738611549 Edition: Second).

Your summer assignment involves mastering the concepts in the **first four chapters** of your textbook. You will have a combination of assignments. Some assignments will be on Mastering Chemistry and some assignments will be from the textbook. Mastering Chemistry has a mobile version that has limited functionality on an iPad. It is much more effective to work on Mastering Chemistry assignments from a computer. Be mindful of the due dates for the Mastering Chemistry assignments, beginning July 14<sup>th</sup> and continuing for 5 weeks (all due on Fridays by 9:00 pm). It is important to check your answers as you go to all the assigned problems and questions from the textbook. Answers to Conceptual Connection Questions are at the end of each chapter, answers to the Self-Assessment Quizzes are at the bottom of each quiz (written upside down), and answers to questions/problems at the end of each chapter are in the back of your textbook in Appendix III. Your completed written summer assignment will be due the first day of class. If there are problems that you cannot get the correct answer for, clearly mark them and we will go over them the first week of school.

Finally, there are four tables of ions you must commit to memory in your textbook: table 3.2 (on page 97), Table 3.3 and Table 3.4 (on page 98) and table 3.5 (on page 99). **You must commit the names and formulas of these ions to memory, as well as all nomenclature rules in chapter 3 (this includes ionic compounds, molecular compounds, acids, and organic compounds).** A quiz on writing the formulas and names of these substances will be given the first day of class.

Begin working on this summer assignment early as it requires covering almost 200 pages of your textbook and it will take you some time to memorize the ions. A comprehensive test covering all four chapters of the summer assignment will be given during the second week of school.

So, welcome to the world of chemistry!

You may reach me at [hwagner@connellyhs.org](mailto:hwagner@connellyhs.org) if you have any questions. I will periodically check my email over the summer.

Sincerely,  
Helen R. Wagner  
**AP Chemistry Teacher**  
**Cornelia Connelly School**

## Summer Assignment for AP Chemistry:

### Register for Mastering Chemistry by doing the following:

1. In your browser (Safari), open [www.pearsonschool.com/access](http://www.pearsonschool.com/access)
2. Enter SSNAST where it asks for a 6 letter code.
3. Click on Covered Titles and Select Science and then scroll down to Title Tro, Chemistry, A Molecular Approach 3e Mastering Chemistry
4. Click on Student Registration and Accept the Pearson License Agreement
5. Do you have a Pearson Education Account? (answer no and create an account unless you already have one – maybe from Spanish?)
5. Enter the access Code: SSNAST-STONK-STEYR-DAYAN-INGOT-AIDES
6. Account Information - complete or verify your name & school information (Connelly will not be listed – scroll down to bottom and enter Other)  
Choose to Login  
Your course ID is Wagner2017
7. Confirmation & Summary – print out receipt!

**There will be 5 assignments on your account to complete. Due dates begin on July 14<sup>th</sup> and continue for 5 weeks, ending on August 11<sup>th</sup>. Each assignment is due on a Friday by 9 pm. After creating your account, you can sign in using this link:**

<http://www.masteringchemistry.com/site/login.html>

### Written Assignments from Textbook:

- (a) In the upper right corner of the first page of each chapter assignment, put your **Name, Date, and the Chapter Assignment with Problem Numbers.**
- (b) For all questions, write out the question or problem on your paper – draw diagrams when given.
- (c) For “**Prose**” work use brief, but complete sentences.
- (d) For “**Problems**” *show setup and all work, box your answer.*
- (e) These assignments will help you master the concepts presented in each chapter. Remember---Practice makes perfect!

For Chapter 1 (**Matter, Measurement, and Problem Solving**) the following items from the Text are assigned:

- 1) Read the chapter and answer all Conceptual Connection Questions throughout chapter
- 2) Take Self-Assessment Quiz (you do not need to write the problems out for this section, but show any calculations necessary to arrive at correct answer)
- 3) Answer Problems: 37, 39, 41, 43, 57, 59, 63, 65, 60, 73, 77, 79, 81, 87, 89, 101, 105, 123, 141, 145

For Chapter 2 (**Atoms and Elements**) the following items from the Text are assigned:

- 1) Read the chapter and answer all Conceptual Connection Questions throughout chapter
- 2) Take Self-Assessment Quiz (you do not need to write the problems out for this section, but show any calculations necessary to arrive at correct answer)
- 3) Answer Problems: 29, 31, 33, 47, 49, 51, 53, 57, 59, 63, 65, 67, 69, 71, 73, 75, 77, 79, 83, 87, 89

For Chapter 3 (**Molecules, Compounds, and Chemical Equations**) the following items from the Text are assigned:

- 1) Read the chapter and answer all Conceptual Connection Questions throughout chapter
- 2) Take Self-Assessment Quiz (you do not need to write the problems out for this section, but show any calculations necessary to arrive at correct answer)
- 3) Answer Problems: 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 65, 69, 73, 75, 79, 81, 87, 95, 99, 105, 109, 111, 113, 115, 117

For Chapter 4 (**Chemical Quantities and Aqueous Reactions**) the following items from the Text are assigned:

- 1) Read the chapter and answer all Conceptual Connection Questions throughout chapter

- 2) Take Self-Assessment Quiz (you do not need to write the problems out for this section, but show any calculations necessary to arrive at correct answer)
- 3) Answer Problems: 25, 29, 31, 39, 43, 49, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97

**To review the material you have completed, at the end of each chapter, look over the Key Terms, Key Concepts, Key Equations and Relationships, and Key Learning Outcomes.**

**Good luck!**