



Dear AP ChemIstry Student,

This fall many exciting challenges and opportunities await you in AP Chemistry to study the handiwork of God. To ensure that you are well prepared for these challenges, a summer assignment is being given. This assignment is designed to help you review some of what you learned in honors chemistry and acquaint you with the comprehension and problem solving skills required for AP Chemistry.

As the title indicates, this is a college-level course. Its format follows that of a general chemistry class usually taken during the first college year. In addition, college credit may be obtained if a student scores a 3, 4, or 5 on the AP examination in May. The course emphasizes problem solving skills and laboratory technique. You will be required to express their ideas with clarity and logic. Many times this will involve a mathematical explanation.

Enclosed you will find instructions for the summer assignments. The due date for the completed assignments (book problems and Canvas quizzes) is the first day of school. No late submissions will be allowed without penalty. I suggest doing 6-10 problems and one quiz a week throughout the summer and not procrastinating. Please remember as you consider class workload and extra-curricular activities for the school year that this course is a **college-level course**, which means the amount of work assigned cannot be adjusted to accommodate social and athletic calendars. Every assignment or project assigned is done with the College Board AP Exam in mind. The College Board recommends that an AP Chemistry student spend no less than five hours a week in individual study outside of the classroom.

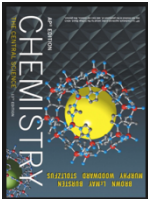
If you have any questions about the summer assignments, please email me at florencepierrelouis@thefirstacademy.org. You will receive a message saying I am away for the summer but I will respond. In preparation for the college-level manner in which AP Chemistry operates, you will need to contact the instructor if you have any questions. I strongly recommend doing the assignments early so you can review them before the term starts. I am looking forward to our year together and the growth that will take place in us by God's grace.

Blessings,

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AP ChemISty Summer Assignment

Textbook and Lab book (please purchase both this summer. You will need the textbook for the summer assignments):



- I recommend getting the physical book. **(Make sure that it is the AP Edition)**
1. Chemistry the Central Science **13th** AP Edition by Pearson 978-0-13-357412-8
 2. AP Chemistry Guided-Inquiry Experiments Student Lab Manual by College Board at store.collegeboard.org. The item number is 160082715.

The following materials are required for AP Chemistry:

- Graphing Calculator
- Chemistry carbonless copy lab notebook – suggested
<https://www.amazon.com/Student-Lab-Notebook-duplicate-Package/dp/1930882742>
- Notebook (for notes)

Directions:

Chapter 1, 2 and 3 of Chemistry The Central Science 13th, AP Edition will be covered in the summer assignment Part I and II. These are a review of Chemistry Honors material on an AP level. The concepts covered in chapters 1-3 are foundational to the study of Chemistry. You will need to master significant figures, dimensional analysis and stoichiometry before beginning AP Chemistry. There will be a **test** on Chapters **1 and 2** only on the **Thursday of the second week of school**.

The Summer Assignments: Part I: Notes and Problems

Read the Chapters and work on the following notes and problem: (these are the same problems that you will see in the summer assignments on Canvas):

- Chapter 1: 2 pages of notes on the chapter
- Chapter 1: Problems 13-53 odd numbers only
- Chapter 1: [check answers in back of book and make corrections with a different color pen](#)
- Chapter 2: 2 pages of notes on the chapter
- Chapter 2: Problems 1, 11-17 odd numbers only, 23, 29, 39, 43, 49ab, 51, 71
- Chapter 2: [check answers in back of book and make corrections with a different color pen](#)
- Chapter 3: 2 pages of notes on the chapter
- Chapter 3: Problems 1, 11, 15, 19, 21, 25, 31, 35, 39, 47, 61, 71, 75
- Chapter 3: [check answers in back of book and make corrections with a different color pen](#)

I suggest doing 6-10 problems a week. Please start this week. The answers to the problem sets are found in the back of the book. Rework the problems until the correct answer is obtained. **All work must be shown for the calculations of the correct answers when possible** (you do not have to show work for molar masses).

The Summer Assignments: Part II: Videos and Quizzes

Summer Assignments Part II is on Canvas. The module is called Summer Assignments Chapters 1-3. The exercises must be completed in the order they are presented. Each section has an Education or YouTube videos to watch (you can add to your notes from Part I if you would like), the problems in Part I that correspond to these videos are listed and small quizzes to complete. All summer assignment problems are due on the first day of class, including the online quizzes. You can do it! I am looking forward to our AP ChemISty Class. If you have any questions, please feel free to contact me. You will get a response saying that I am out of the office but I will respond. Have a wonderful summer!