AP Chemistry Information and Summer Assignment

Welcome to AP Chemistry! In order to control the large volume of work we are expected to cover prior to the exam next May, we are going to get a jump start this summer.

Before we start, though, let me explain AP chemistry and how our class will be run.

1. My goal is for you to pass that exam in May! In other words, we are going to work hard, work smart, but learn fast!
2. The curriculum is not set by me, the curriculum is set by College Board, so we don't have the luxury to slow down or cover less like I do in my other chemistry classes. There will be days when you feel overwhelmed and want me to slow down, but since I am not dictating the pace or the content load, we won't be able to slow down.
3. Sometimes hardworking students experience their first B in AP classes. Remember, a B in AP calculates as an A on your GPA. A "B" is not bad, you can get into phenomenal schools with a B on your transcript (I know plenty who have, including my daughter, who did!) Colleges are great at distinguishing between applicants who applied themselves and don't have all A's from those who took an easy course load and do have all A's.
4. We don't have class time for discussing make-up work due to absences. Please be prepared to stay after school if you have make-up work.
5. At the end of every test, we will have test corrections. Test corrections allow you to earn points back on your test. Test corrections are completed after school.
6. We don't have time to do the 90-80-70-60-50 progression for late work. By 5 days after a due date we may have finished the chapter, and then you will be far behind if we follow this scenario. So, for AP, work is due on the date it is due. One day late is a 50% and two days late is a zero.
7. We do some phenomenal labs in AP and get to use LabQuest technology. If you have a laptop, this will make using the technology much more fluid (the LabQuest can be plugged directly into your device so you can easily download data and take it home to work on). Please do your best to have your own portable device (a phone does not qualify) for AP. The best devices, in my opinion, are those that allow you to write directly on the computer screen. So, if you are out shopping for one – consider that as a great option.
8. AP chemistry is one of the hardest courses College Board offers but it is so rewarding to see how you can grow as a student and critical thinker. I love teaching this course and I look forward to teaching you this year!

Textbook
The school will arrange pick up times for your textbook. This is a fabulous, readable book – don't be afraid to read it! JCS has purchased the best AP chem book available:

Chemistry, 10th Edition, Zumdahl, Zumdahl, & DeCoste

OneNote
Your summer assignment will be uploaded to the appropriate tabs in OneNote. Once you sign up for the class and I have received my roster, I will send you an email invite to the OneNote notebook and you can get started.

Summer Assignment

Memory work

1. Memorize the "polyatomics" sheet. The sheet can be found under Content Library in OneNote. You may already know many of them from Honors Chem. We will have a quiz over these the first Friday after school starts!
2. Memorize the "Powers of 10" table on page 9 of the textbook. Memorize from tera (T) down to pico (p). You will have a quiz over these the 2nd day of school.

Book work – Overview
All of the answers to the following problems are in the back of the textbook. Therefore, you MUST show all your work. Writing the answer down earns zero credit – the answers are provided! The goal is to get the answer yourself, check your work against the provided answer, and then trouble shoot where needed. I will be available this summer via Zoom or email if you get stuck. Answers need to be "boxed" or circled and units are necessary where appropriate. Use significant figures. If your prior course did not teach you significant figures, we will be reviewing this thoroughly our first week back. It is covered in textbook pages 14-17 and there is a powerpoint over this under Content Library on OneNote.

Book work: Chapter 1
Read chapter 1 thoroughly. The book is sooooo readable and easy to understand relative to other chemistry textbooks. Don't skip the reading. It will help you remember concepts you learned from your last chemistry course and mesh them with the deeper content level. Read through the provided Chapter 1 powerpoint (in Content Library on OneNote). You may find it easiest to simultaneously read the chapter along with the powerpoint – they are aligned.

Do the following questions and attach them to the HW tab in OneNote labeled: "Chapter 1 HW"
8, 10, 11,13, 19, 23, 29, 31, 33, 37, 51, 55, 61a, 63 c, 73a, 79b, 83, 87, 101a

Book work: Chapter 2
Read chapter 2 thoroughly. This chapter covers everything you did in Honors Chemistry (from about October until February) and is an excellent review. Read through the provided Chapter 2 powerpoint (in Content Library on OneNote). You may find it easiest to simultaneously read the chapter along with the powerpoint – they are aligned.

Do the following questions and attach them to the HW tab in OneNote labeled: "Chapter 2 HW"
21, 25, 27, 31, 33, 35, 37, 39 45, 47, 57, 61, 63, 67, 77, 79, 81, 83, 87, 89, 91, 93, 101
Do Q 1-17 AP 2-A

Book work: Chapter 3
Read chapter 3 thoroughly. This chapter covers everything you did in Honors Chemistry (from February to March) and is also an excellent review. It goes more in depth, too. We will highlight the more in-depth sections once the school year starts. Read through the provided Chapter 3 powerpoint (in Content Library on OneNote). You may find it easiest to simultaneously read the chapter along with the powerpoint – they are aligned.

Do the following questions and attach them to the HW tab in OneNote labeled: "Chapter 3 HW"
Q 35 – 41 odd numbers, 45, 47, 51 (only for Prozac), 53b, 59 (use b only), 65 (first half of question only), 67c, 69c, 71 (don't do the 8 tablet last question), 75 b, 77, 81 b (do mass percent of carbon only), 83 c, 89, 95, 97a, 101 all, 113, 115 a,b, 121, 127, 129, 135, 137

Book work: Chapter 5 *(yes, we will skip 4 for now)*
Read the following portions of chapter 5: 165-182, 189-192. These pages cover what you did in Honors Chemistry during April – May. We will learn the remaining sections/pages together during class. Read through the provided Chapter 5 powerpoint (in Content Library on OneNote). Skip the slides that we are skipping in the reading. We will come back to them during class time.

Do the following questions and attach them to the HW tab in OneNote labeled: "Chapter 5 HW"
23, 25, 27, 33, 41, 43, 47, 49, 51a,c, 53, 57, 61, 65, 69, 71, 73

All Summer work is due by the first Friday after school starts. The completed work is your ticket to remain enrolled in the course! Consider working on a chapter a week over a period of 4 weeks. Pace yourself! Remember, I will be available this summer via Zoom or email if you get stuck!

See you in August!