

AP Chemistry

Summer Reading and Assignment

2022-23

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AP Chemistry builds on prior knowledge from Honors Chemistry. You will need to spend the summer reviewing skills learned in Honors Chemistry.

We will cover Chapters 1-3 over the summer. This material will not be reviewed when you return in August; rather you will have a test over these chapters upon returning in August. The test date will be announced the first week of school.

1. Step one: PICK UP YOUR TEXTBOOK IN THE FRONT OFFICE. PICK UP A PRINTED PACKET WITH YOUR TEXTBOOK. Read Chapters 1-3. If they seem long, remember many pages are devoted to practice problems. Use the outlined notes emailed to you as a guide as you read and take extra notes or highlight things you feel are “new” to you or that you forgot from Honors Chemistry. This will help you pull out what to study without feeling overwhelmed with the information you do not need to study again.
2. Step two: Work through the problems in the packet. The packet will be taken as a completion grade upon your return in August. I am including a periodic table (remember AP Chemistry allows atomic symbols not names.) I will also include an electron configuration table, which you will need to learn. Some of the items included in the packet touch on the material in Chapter 4. If you feel stuck, it may be helpful to look over Chapter 4.

It is no secret, and you will realize quickly this year that many answers can be found by using google. Please keep in mind the purpose of this class is not to “find the answer,” but to understand the concept. I encourage you to watch videos and try to understand the problem rather than just find the solution.

Khan Academy is a very useful site. I will also include a video link after certain topics that may help you.

Please work hard memorizing the monoatomic and polyatomic ions that need to be committed to memory. Flash cards are a good suggestion. We will have a quiz over these the second class we meet. You will be allowed a periodic table (symbols only.) A great website to use for practice quizzes is: <https://www.sciencegeek.net/APchemistry/Quizzes/Ions/>

Completing the textbook problems is also a great way to review. I suggest working those on your own pertaining to topics you highlighted in the outlined notes for extra practice if you wish. Answers can be found in the back of the book for the problems numbered blue.

I am listing below other resources and websites that you may use for help. You also may email me with questions as fmitchell@princeave.org If the packet feels overwhelming, try not to think of it as a grade rather as a way of preparing for a successful year. There will be some items in the packet some of you are not familiar with. We will be building upon this material in August, so you will be seeing it more than once.

Please allow 48 hours for a response over the summer.

Lastly...I will be giving an ANSWER KEY to the problem packet. This should be used at your own discretion. Your packet MUST be in your own handwriting (research supports you learn as you write!) However, you may use the answer key to check your work and get hints. This key will be emailed to you this summer.

Your success in this course is highly dependent upon your completion of these items prior to our first class in August.

As a recap: the required items for this summer are to read Chapters 1-3 and complete the attached packet for a completion grade.

Recommended Optional AP Chemistry Review books:

5 Steps to a 5, AP Chemistry, (any year after 2014), by John Moore and Richard Langley, McGraw-Hill (Best resource for the school year)

Cracking the AP Chemistry Exam, (any year after 2014), by Paul Foglino, The Princeton Review (Best resource for AP Exam Prep)

AP Chemistry Crash Course, 2nd Edition, by Adrian Dingle, Research & Education Association

Useful Websites:

<https://www.khanacademy.org/science/ap-chemistry-beta?msclkid=d0e4a375b2e511ec91a3d7dc303e3058>

<http://www.bozemanscience.com/ap-chemistry/?msclkid=e5c5cdfb2e511ec85606598440ca907>

<https://www.sciencegeek.net/APchemistry/index.shtml?msclkid=fb152a71b2e511eca1c800d40f9bcad5>

I am excited to partner with you in this journey this year! I might be a pharmacist, but I started as an education major. The Lord has always placed a love of teaching in my heart, and I am grateful I get to share my passion for learning with you!