2026-2027 AP CHEMISTRY SUMMER ASSIGNMENT

- The Advanced Placement Chemistry course is designed to build upon and integrate the concepts you have learned in your Honors Chemistry course. To ensure all students begin this course with the same basic knowledge and skill level, the selected homework problems listed at the end of this document are to be completed in stages as a summer homework assignment.

- The AP Chemistry course is also intentionally run as a college-level course: there is an expectation that students will need to be (or quickly become) proficient at investigating and researching novel concepts *outside of class*. You are all **strongly encouraged** to form a small study group with a few other students and work on the problems together. However, each of you is required to submit your own set of answers.

- Additionally, there will be topics covered in this summer assignment that you have not seen before. Please don't fret! Just do the questions to the best of your ability. Furthermore, tutorial help is widely available online that can help demonstrate concepts and provide extra example exercises – feel free to avail yourselves of one or more of these resources. Finally, if - *after you have investigated a topic yourself* - you would like further clarification, you may email Dr. Ryan directly.

- The textbook required is *Chemistry: The Central Science (15th Edition)* by Brown, LeMay, Burstein, Murphy, Woodward, and Stoltzfus. *(You were given electronic access to this text via the Pearson website at the end of May; please email Dr. Ryan if you have trouble logging in.)* Your homework is to answer all the questions in the list at the end of this document. These questions were taken from the "Exercises", "Additional Exercises", and "Integrated Exercises" sections at the end of each respective textbook chapter.

- The **answers only** to all questions are to be sent to JARyan@KingSchoolCT.org in three installments:

Chapters 1 - 4	due by 10:00AM on **Tuesday, June 30th**
Chapters 6 - 9	due by 10:00AM on **Friday, July 31st**
Chapters 5, 10 - 12	due by 10:00AM on **Monday, August 31st**

- Please use **AP Chem Summer Assignment # [1, 2, *or* 3]** as the subject line of your email. Your answers should be included in the body of the email *or attached* as Word files. (If you prefer to handwrite your answers, you may submit pictures of your handwritten work via email, but *please ensure your answers are legible before sending your pictures*.) Also: **do *NOT* directly share a document**.

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Assignment 1 *Chapters 1 - 4* **Due Date: June 30**		**Assignment 2** *Chapters 6 - 9* **Due Date: July 31**		**Assignment 3** *Chapters 5, & 10 - 12* **Due Date: August 31**	
1.74	3.75	6.83	8.82	5.102	11.76
1.80	3.78	6.85	8.86	5.106	11.80
1.84	3.82	6.90	8.90	5.110	11.81
1.90	3.87	6.94	8.94	5.118	11.94
1.91	3.93	6.98	8.100	10.96	12.7
1.93	3.98	6.100	9.86	10.106	12.12
1.94	3.106	6.104	9.89	10.110	12.13
2.72	3.108	7.82	9.93	10.118	12.43
2.78	4.92	7.89	9.107		12.66
2.80	4.96	7.92			
2.95	4.98	7.106			
2.98	4.100				
2.102	4.104				

- ***You will be TESTED*** on the specific concepts presented in this material in our second class in September. Consequently, it is important that you genuinely understand each topic.

- **DO NOT WAIT** to begin your assignments! The sooner you are able to exactly determine the topics of which you are unsure, then the more time you will have to spend researching and asking questions on these things.

- ***Late assignments will not be accepted*** without prior notification and explanation. In the event an assignment is not submitted on time without any prior notification, you will receive an email later the same day an assignment is missing. If you do not respond in a timely fashion to this email, it will be presumed you are intending to drop the class, and Mr. O'Neill will be appraised of your decision.