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\*\*\* In order to access the assignment, you MUST be added to my roster. Please email me...PRIOR TO THE END OF THE SCHOOL YEAR!!! In your email, please simply list your name, Regents/Honors Chemistry teacher's name, your school ID number, and your cell phone number. Once I receive everyone's information, I will send out an email with instructions to access the AP Chemistry Google Classroom to begin your assignments for next year. \*\*\*

I understand that this is summer vacation so I want to make the best use of your time by assigning you work that is relevant to your success in AP Chemistry. The purpose of this assignment is to review some important prerequisite skills that you should have after your first year of chemistry so that we are ready to begin the work of AP Chemistry as soon as school begins in September.

The first part of the assignment is divided into 4 sections and will be due at various points throughout the summer. This assignment requires you to watch videos while filling out a set of guided notes and then completing a series of practice problems. Each of these assignments need to be submitted to the Google Classroom on or before the due dates listed. Assignments will be available beginning June 30<sup>th</sup>. Assignments will not be reopened if you fail to complete them on time. Each section of the assignment will be graded and the grades will be counted toward your first quarter average.

The following are the due dates for the assignments:

Assignment #1

Solutions: Molarity, Solution Stoichiometry, and Dilutions

Due: July 12, 2024

Assignment #2

Particulate Diagrams: Representations of Reactions

Due: July 26, 2024

Assignment #3

Stoichiometry: The Math of Chemistry

**Due: August 9, 2024** 

Assignment #4

Limiting Reactants and Solution Stoichiometry

Due: August 23, 2024











The second part of the assignment requires you to memorize the list of polyatomic ions provided. You should memorize <u>both</u> the name and the formula (including charge) of each ion. You will need to look up the formula and charge for each ion listed. It is strongly encouraged that you create flashcards/quizlet for this task and review them throughout the summer.

## The following are the polyatomic ions to memorize:

nitrate	hypochlorite	thiosulfate
nitrite	cyanide	hydrogen sulfate
sulfate	cyanate	hydrogen phosphate
sulfite	thiocyanate	dihydrogen phosphate
phosphate	chromate	hydrogen carbonate
phosphite	dichromate	iodate
carbonate	manganate	acetate
chlorate	permanganate	hydroxide
chlorite	tartrate	ammonium
perchlorate	oxalate	hydronium

You are encouraged to collaborate on these assignments...but <u>you</u> are ultimately responsible for having gained the necessary knowledge and skills. You may use your notes from Regents or Honors Chemistry and are encouraged to use resources available on the internet if needed, such as:

https://www.khanacademy.org/ http://chemfiesta.org

http://chemteam.info/ChemTeamIndex.html http://www.chemistrygeek.com/

In addition, you may message me any questions you have using our class GroupMe. I usually have my phone with me to receive messages, but please be aware that I may not be able to respond immediately to your message. If you do not receive a reply immediately, rest assured that I <u>WILL</u> respond to your question as soon as I am able. But if you wait until the last minute to ask for help, you may not receive it in time to complete your assignment. I hope that you enjoy your summer and find some time to relax and rejuvenate. I look forward to working with you and hope that you are excited to continue your study of chemistry!

