**GOOD DAY 2024-2025 AP CHEMISTRY STUDENTS!**

I’m excited to share my passion for Advanced Chemistry with you next year! The labs are pretty cool, and you get to learn a lot more about *why* chemistry works.

For those of you who are a year removed from Honors Chemistry (rising seniors!), you are ***required*** to complete the online Viziscience AP Chemistry Refresher Course. It should take about **20 hours** to master the concepts. Your goal should be **85%** for each Unit.

For those of you coming directly from Honors Chemistry (rising juniors!), you do ***not*** need to complete the Online Refresher Course, but you may, if you’d like.

On the other page is information you need to know for a **MINOR ASSESSMENT on Day 2**.

The online program will **not be usable until JUNE 1**, but here is how to register and enroll:

1. Go to <https://v2chem.viziscience.com/>
2. You can use either your email or a Google account to register
3. On **JUNE 1**, click All courses >> Advanced Chemistry >> AP Summer Prep 24/25
4. I will contact you via Remind and school email with the enrollment key.

There are 4 Units in this online program:

* 0. Significant Figures
* 1. Atomic Structure and Properties
* 2. Molecular and Ionic Compounds
* 4. Chemical Reactions

**PROGRESSIVE DUE DATES:**

**June 30 –** Units 0 and 1 completed **by 10pm**

**July 31 –** Units 2 and 4 completed **by 10pm**

*You can absolutely complete all work early, but if you fall behind on the due dates, you will be dropped from the course and registered for a non-AP science course.*

You can contact me throughout the summer via email – brownli@boe.richmond.k12.ga.us or via Remind (join **@dfaapchem**). Critical thinking and independent research are foundations for this course, so ensure you have exhausted your resources prior to contact!

Good luck, and I’ll see you in August!

P.S. If you would like to maximize your preparation for next year, I recommend EITHER [AP Chemistry Crash Course for the Current Exam](https://www.amazon.com/Chemistry-Course-Online-Advanced-Placement/dp/0738612634) by Adrian Dingle ($9.49 on Amazon) OR [The Princeton Review AP Chemistry Premium Prep](https://www.amazon.com/Princeton-Review-Chemistry-Premium-Prep/dp/0593516761) ($22.15 on Amazon)

*Much of this information will be referenced in the online work, but the graded test will come from the information below:*

Memorize the ions on this quizlet: <https://quizlet.com/242711250/ions-to-memorize-dfa-flash-cards/>

Memorize the solubility rules: <https://tinyurl.com/y5rb6exa> (Rules 1 & 2)

Use scientific notation and significant figures (digits) and calculate with them: <https://www.chemteam.info/SigFigs/SigFigs.html> (Tutorials 1, 2, 5, & 6)

Write orbital notation, electron configuration notation, and noble gas notation for atoms and ions: <https://tinyurl.com/y4qwl4sm> and <https://www.chemguide.co.uk/atoms/properties/ionstruct.html>

Name and write formulas for ionic, molecular (covalent), and acidic compounds: <https://www.chemteam.info/Nomenclature/Nomenclature.html> (all Tutorials)

Write and balance chemical equations: <https://www.chemteam.info/Equations/Equations.html> (all Tutorials except redox)

Do mole conversions: <https://www.chemteam.info/Mole/Mole.html> (Tutorials 1-6)

Perform stoichiometric calculations, including limiting reactant (reagent): <https://www.chemteam.info/Stoichiometry/Stoichiometry.html> (all Tutorials)

Calculate percent composition, empirical formula, and molecular formula <https://www.chemteam.info/Mole/Mole.html> (Tutorials 9-12)

Calculate molarity and dilutions: <https://www.chemteam.info/Solutions/Solutions.html> (Tutorials 1, 2, & 3)

Curious about all the stuff you have yet to learn? Check out the 248-page Course and Exam Description: <https://apcentral.collegeboard.org/pdf/ap-chemistry-course-and-exam-description.pdf>