

Dear future AP Chemistry student,

We are so excited that you are choosing to learn more chemistry with us next year! Before you leave for summer break, we wanted to let you know about a few things that you might want to practice over the summer. When we start class in August, Unit 1 jumps right into mole calculations, so please review **moles, molar mass and Avogadro's number** before school starts. If you need resources to review, look up Bozeman Science on Youtube. He has an AP Chemistry playlist with really good videos!

The rest of the first semester will be a review of topics you've already learned, with some new, related topics added in. The following is a list of those topics that you should already have learned and hopefully need minimal practice with.

- Empirical and molecular formula
- Percent composition
- Isotopes and average atomic mass
- Electron configurations
- Wave/light calculations
- Valence electrons and ion charges
- The ideal gas law, $PV=nRT$
- Dalton's law of partial pressure and mixtures of gases
- Solutions, molarity and dilutions
- Balancing equations
- Stoichiometry

There will be resources available to help you review and practice these concepts once school starts. It would be a good idea to keep your Honors chemistry materials if you can.

Materials you will need for next year: Binder or Folder, Spiral notebook or notebook paper, pencil and blue or black pen, scientific calculator. You will also need a laptop or chromebook every day.

If you have questions or need help with anything, please email either of us or stop by D118. See you in August!

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