

Welcome to AP chemistry!!

As you know we have a lot to cover and not a lot of time to cover it in.

So...

Review is up to you... You have all had chemistry and the first 3 chapters of your AP chemistry book should be second nature already.

The plan... Chapters 1-3 are required summer reading. When school starts we will spend 1 day on each chapter reviewing and then have a test on chapters 1-3 so it will be your responsibility to refresh your memory on these topics **before** school starts.

Chapter 1... From this you should be reviewing:

1. What is the study of chemistry?
2. Phases of matter
3. Mixtures
4. Law of definite proportions
5. Physical vs. chemical properties and changes
6. Scientific method
7. SI units
8. Unit conversion
9. Significant figures
10. Dimensional analysis (i.e. keeping track of units when solving equation)

problems: 1.1-1.54 Odd

Chapter 2... From this you should be reviewing:

1. What is an atom
2. What are the subatomic particles that make up an atom
3. The experiments that lead to the discovery of subatomic particles
4. Atomic number, mass number, atomic weight, and isotopes
5. What does it mean when an atom has an electric charge
6. Understand how to read the periodic table (groups, periods etc)
7. Metallic vs. non metallic elements
8. Molecules, molecular compounds
9. Chemical formulas, empirical formulas, molecular formulas, and structural formulas
10. Ions (cations vs. anions)
11. Ionic compounds and polyatomic ions

12. Naming!!!!

problems: [.17-2.77](#) Odd

Chapter 3 (the math chapter)... From this you should be reviewing:

1. Stoichiometry
2. Balancing chemical equations
3. Types of reactions
4. Chemical formulas → formula weight/molecular weight
5. Mass ⇔ Moles
6. Molecular formula ⇔ Empirical formula
7. Determining the limiting reactant, theoretical yield and percent yield

problems: [3.9-3.79](#) Odd