

Mr. Lin

AP Chemistry Summer Assignment Instructions

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Silently challenge everything. This does not mean in a contemptuous manner. Challenge your own understanding in your mind. Take on a healthy dose of skepticism without being a cynic. Find insight about your own thinking and improve upon it. Get it?

Three assignments will be due on the first day of class: Part I, Part II, and Part III

Part I

1. Check out a textbook from the library. (Chemistry 5th Ed, Zumdahl)
2. Complete the following:
 - Read and outline Ch 1
 - Ch 1 Problems (27, 28, 31, 37, 40, 43, 54, 58, 79, 88, describe distillation, filtration, chromatography)
 - Read and outline Ch 2
 - Ch 2 Problems (17, 18, 22, 24, 28, 43, 51, 58, 59, 70, 72, 87, differentiate isotope and ion)

Part II

Print the handouts of common ions, naming compounds flow chart, solubility rules, and naming and solubility worksheet

1. Memorize the names, formulas, and charges of common ions.
2. Memorize the naming compounds flow chart.
3. Memorize the solubility rules.
4. Complete the solubility and naming compounds worksheet.

Note: Take time to memorize this information. Do NOT procrastinate. (Procrastination is a five syllable word for sloth.) Flashcards are useful. Knowing this information will make the rest of the year easier. The AP Test is written with the expectation that this information has been memorized.

You will be quizzed on the ions, naming compounds, and solubility rules the second day of class.

Part III

Respond to the following prompts in the one chunk format:

1. Why are significant figures important in a calculation? (five sentences → TS, CD, CD, CD, CS)
2. Why do chemical bonds form? (five sentences → TS, CD, CD, CD, CS)
3. Explain how ionic compounds form and how molecular compounds form. Be sure to include the words “stable” and “neutral” and use specific examples. Then discuss the similarities and differences between the two types of compounds. (ten sentences → TS, CD x 8, CS)
4. Describe everything that you understand about the periodic table. (ten sentences → TS, CD x 8, CS)
5. Describe the historical development of the atomic model by describing the Thomson experiments, Rutherford experiments, and the modern view. (ten sentences → TS, CD x 8, CS)