

Advanced Placement Chemistry Summer Assignment

You will be expected to **know** the information covered in your first year of chemistry course (Please know that College prep chemistry does not cover the same amount and depth as Honors Chemistry), thus preparing yourself for an assessment (**TEST**) worth up to 15% of your grade given on the second day of school. These chapters below are a review of what you should have learned in Chemistry last year and are foundational. These chapters do not cover everything you learned from your first year in chemistry, but you are still expected to have the basics understood from your first year chemistry course. **The summer program is an important part of the AP course and serves two functions: 1) to keep you active as readers (you have to read this book or success will be more difficult), and 2) to prepare you for the level of material we will be learning throughout the academic year.**

Summer Assignment

Due Friday of the first week of school [You will get access to the online text when school begins]

To get text / quiz. Go to: www.masteringchemistry.com >> Log in

Username: dvapchem2016 >> **password:** Dougherty18

Memorize Solubility Rules, ions, and ion colors from: (www.chemistryrocks.net → Downloads)

Study up on Acids and Bases and Equilibrium – large part of AP CHEMISTRY

For each of the following chapters complete the following:

- Take Quiz from link above when logged in
- Print Results, then ANNOTATE (tell me why with chemistry concepts why your answer was correct). If you got an incorrect answer, then ANNOTATE why your answer choice was incorrect AND what is your new answer and why. 3-5 sentences per annotation please

Chapter 1 (Matter, Measurement and Problem solving):

Chapter 2 (Atoms and Elements):

Chapter 3 (Molecules, Compounds, and Chemical equations):

Chapter 4 (Chemical quantities and Aqueous Reactions):

All answers/work to the above QUIZZES be stapled to THIS paper upon handing in

**The following topics students are EXPECTED to know before the start of AP Chemistry:
This list is not complete; it is designed to help you prepare for AP Chemistry**

Empirical formulas Combustion analysis Normal	Acids and bases Strong vs. weak Salts pH calculations	Fundamentals Structure of the atom Electron config.	Kinetics Rate Laws Meth. of initial rates
Equilibrium Le Chatelier's Principle K constant ICE tables	Redox Balancing in acidic solutions Oxidation states	Periodic Table Trends Ions	Chemical reactions Net ionic Types of rxns Acid Base
Bonding Covalent, Ionic, metallic	Acids and Bases II Calculate pH with salts	Most important: Acids and Bases Equilibrium	Laboratory skills
Name:		Period:	ALL or NOTHING (Schnell will determine this)