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 <u>second</u> 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.***

<u>**Summer Assignment**</u>
Due Friday of the first week of school [*You will get access to the online text when school begins*]
To get etext - 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
Go to coggle.it and create acct – FREE, use gmail from school for account
For each of the topics in the table below, add a branch point and add as much as you can.
Read over ACID / BASE / EQUILIBRIUM / REDOX
Export coggle as PDF to print and turn in on due date.

You will staple your coggle to THIS SHEET OF PAPER to turn in on Due date

The following topics students are <u>EXPECTED</u> 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)