

# AP Chemistry Summer Assignment - 2019

The AP chemistry summer assignment is designed to refresh your memory of concepts learned in honors chemistry. Since you may not have seen this material in a year or more, it is vitally important that you take this summer assignment seriously. In class we will focus more on the material that is new in order to better prepare you for success on the AP exam in May.

Due Date is the First Day of School – No exceptions! And no excuses will be accepted as to why it can't be handed in on time as you are given more than enough time to complete the assignment. (Textbook: Chemistry - The Central Science - 10<sup>th</sup> edition)

Complete the following problems on binder paper. Be sure to include name, chapter, problem numbers, and show work.

## **MATTER AND MEASUREMENT**

PG 31 - 35

1.1 A-D, 1.2 A, 1.10 A-D, 1.20 A-D, 1.28 A/C, 1.33A-E, 138 A-E

## **ATOMS, MOLECULES, AND IONS**

PG 70 - 74

2.3 A-D, 2.17 A-C, 2.18 A-D, 2.24, 2.36 A-D, 2.53 A-D, 2.62 A-D

## **STOICHIOMETRY**

PG 110 - 116

3.12 A-D, 3.22 A-D, 3.33 A-D, 3.43 A-B, 3.57 A-C, 3.59 A-C, 3.68 A-B, 3.71 A-B, 3.77 A-B

**MEMORIZED THE FOLLOWING POLYATOMICS, ACIDS, AND BASES.**

Phosphate	$\text{PO}_4^{-3}$
Sulfate	$\text{SO}_4^{-2}$
Sulfite	$\text{SO}_3^{-2}$
Carbonate	$\text{CO}_3^{-2}$
Nitrate	$\text{NO}_3^{-1}$
Nitrite	$\text{NO}_2^{-1}$
Permanganate	$\text{MnO}_4^{-1}$
Cyanide	$\text{CN}^{-1}$
Hydroxide	$\text{OH}^{-1}$
Acetate	$\text{C}_2\text{H}_3\text{O}_2^{-1}$
Ammonium	$\text{NH}_4^{+1}$

Hydrochloric Acid	HCl
Hydrobromic Acid	HBr
Hydroiodic Acid	HI
Nitric Acid	$\text{HNO}_3$
Chloric Acid	$\text{HClO}_3$
Perchloric Acid	$\text{HClO}_4$
Sulfuric Acid	$\text{H}_2\text{SO}_4$
Phosphoric Acid	$\text{H}_3\text{PO}_4$
Sodium Hydroxide	NaOH

**A QUIZ ON THESE SAMPLES WILL BE GIVEN ON THE FIRST DAY OF SCHOOL!**