2021 AP Chemistry Summer Assignment

All questions and concerns related to this assignment should be directed to **Mrs. Balderama** on or before Tuesday, June 22, 2021.
If any concerns should arise over the summer, please email **both** the teacher **and** the supervisor listed below:

Teacher: Mrs. Balderama – dbalderama@dumontnj.org

Supervisor of Mathematics & Science: Ms. Warnock – dwarnock@dumontnj.org

Weight: *Each assignment will be counted as a quiz grade (100 points)*

Deductions: *10 points will be deducted each day it is late*

1) Due Friday, September 10th- Read and outline Chapter 1-4 and review PowerPoints. You may also watch some review videos posted in our shared drive folder in the Folder "ChemVideos". The "AP Chem Unit 1a" video covers the first 3 chapters. I highly recommend watching it in addition to the "conversions tutorial" and any mass, mole, limiting reagent, scientific notation videos that are posted. Watching these videos is optional but will help in your review of old content.

2) Due Wednesday, September 15th- Complete the following textbook problems (2-3 will be randomly selected and will count as a quiz grade) from Chapter 3: #27, 33, 39, 41, 43, 45, 47, 49, 51, 61, 65a-b, 69, 73, 75, 81, 83, 89, and 91

3) Within the first couple weeks of school you should be able to:

- Perform metric conversions (giga-nano)
- Apply the significant figures and rounding rules
- Convert between temperature units
- Classify matter
- Know the discoverers, time periods and brief description of the experiments that led to the atomic theories (discovery of the parts of the atom)
- Write atomic/nuclear symbols
- Memorize the Table of Ionic Charges
- Know the group names for the periodic table
- Name binary compounds and common acids (strong and weak acids on table only)
- Calculate molar/atomic masses and average atomic masses
- Balance chemical reactions
- Perform stoichiometric calculations (moles – atoms – grams)
- State Avogadro's number
- Calculate percent composition
- Determine the empirical and molecular formula
- Determine the limiting reagent and calculate percent yield

Class site: https://sites.google.com/a/dumontnj.org/mrs-balderama--ap-chemistry/

Class Google Drive Folder will be shared with you.