CHAPTER 7 - Part 1

THINGS TO KNOW

- ☐ From chapter 7
  - All the vocabulary and notes from the sections we've covered in chapter 7
  - Memorize polyatomic ions
  - Memorize the charge/ oxidation number for groups 1, 2, and 13 - 17
  - Memorize acids
  - Memorize prefixes
  - Memorize names and formulas for common substances
  - Memorize the rules for determining oxidation numbers
- ☐ From chapter 3
  - All the vocabulary and notes from the sections we've covered in chapter 3
  - Memorize Avogadro's number: 6.022×10^{23} *(I'll give you a periodic table to use on the test.)*

THINGS TO KNOW HOW TO DO

- ☐ Write formulas for ionic compounds ionic compounds and name them using the Stock system
- ☐ Write formulas for binary molecular compounds and name using BOTH the Stocky system and the prefix system
- ☐ Read a chemical formula
  - $6Al_2(SO_4)_3$ contain how many atoms or moles of Al? S? O?
- ☐ Determine oxidation numbers for each of the elements in a compound .
- ☐ Determine oxidation numbers for each of the elements in a polyatomic ion.
- ☐ Convert moles to atoms and atoms to moles using the Q formula
  - conversion factor is 6.022×10^{23} atoms in one mole
- ☐ Convert moles to mass and mass to moles using the Q formula
  - conversion factor is molar mass, you get it off the periodic table
- ☐ Convert mass to atoms AND atoms to mass using the Q formula
  - use a Q formula with <u>two</u> conversion factors
  - mass → moles → atoms ***OR*** atoms → moles → mass