CHAPTER 7 - Part 1

THINGS TO KNOW

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- All the vocabulary and notes from the sections we've covered in chapter 7
- Memorize polyatomic ions (the list is under the Worksheet tab on the class website)
- Memorize the charge/ oxidation number for groups 1, 2, and 13 17
- Memorize the formulas and names for the binary acids and oxyacids (Worksheet tab on the class website)
- Memorize numerical prefixes
- Memorize names and formulas for common substances (Worksheet tab on class website)
- Memorize the rules for determining oxidation numbers

☐ From **Chapter 3**

- Relative mass
- Average atomic mass
- Memorize Avogadro's number: 6.022 x 10²³

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 Stock system and the prefix system
Read a chemical formula
 6Al₂(SO₄)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
Use the periodic table to determine the average atomic mass of an element
Calculate formula mass and molar mass of atoms
Convert moles to mass and mass to moles using the Q formula (mass → moles or moles → mass) • Conversion factor is molar mass and you get it off the periodic table
Convert moles to atoms/molecules and atoms/molecules to moles using the Q formula (moles → atoms/molecules or atoms/molecules → moles) • Conversion factor is 6.022 x 10 ²³ atoms/molecules in one mole
Convert mass to atoms/molecules and atoms/molecules to mass using the Q formula (mass → moles → atoms/molecules or atoms/molecules → moles → mass) ■ Two conversion factors – molar mass and 6.022 x 10 ²³ atoms/molecules in one mole

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NGS YOU KNOW YOU NEED TO PRACTICE	