

NAME:

HONORS CHEMISTRY

SECTION:

Chapter 8 Assignment Sheet

Assignment	Due Date
1. §Double displacement minilab	Wednesday, 10/31
2. §Read sections 8.1-8.2 in textbook, take notes on key concepts	Thursday, 11/1
3. §Complete pp. 239-240 #1, 3, 4	
4. §Dimensional Analysis Review	Friday, 11/2
5. §Complete p. 504 #18, 22	
6. §Complete pp. 240-241 #9-12, 23, 30	Monday, 11/5
7. §Complete pp. 679-680 14, 22, 26, 28	
8. Complete p. 242 #38, 40	Wednesday, 11/7
9. *Google Classroom assignment on mole calculations	
10. Complete p. 681 #39, 45	Thursday, 11/8
11. *Go to http://chemistry2.csudh.edu/homework/hwintro.html and complete 5 problems of #8—upload receipt in Google Classroom	
12. §Complete p. 242 #48, p. 244 #84	Friday, 11/9
13. Handout on alkane nomenclature	
14. §Write a concept map about key ideas from chapter 8	Tuesday, 11/13
15. Complete pp. 684-685 #116, 118	
16. §Complete pp. 244-245 #77, 78, 80, 93, 94	Wednesday, 11/14
17. *go to http://chemistry2.csudh.edu/homework/hwintro.html and complete 5 problems of #14—upload receipt in Google Classroom	
18. Need a challenge? Check out these problems! (OPTIONAL) http://www.sciencegeek.net/Activities/combustion.html	
19. §Chapter 8 Review Sheet	Thursday, 11/15
20. Study for Chapter 8 Test	Friday, 11/16
20. §Organic nomenclature handout	Monday, 11/19
21. Study for organic nomenclature quiz	Tuesday, 11/20
22. Prelab for <i>Percent Composition of a Hydrate</i> lab	Tuesday, 11/27

Dates to Remember:

Chapter 8 Test: Friday, 11/16

§may be checked or collected in class

Organic Nomenclature Quiz: 11/20

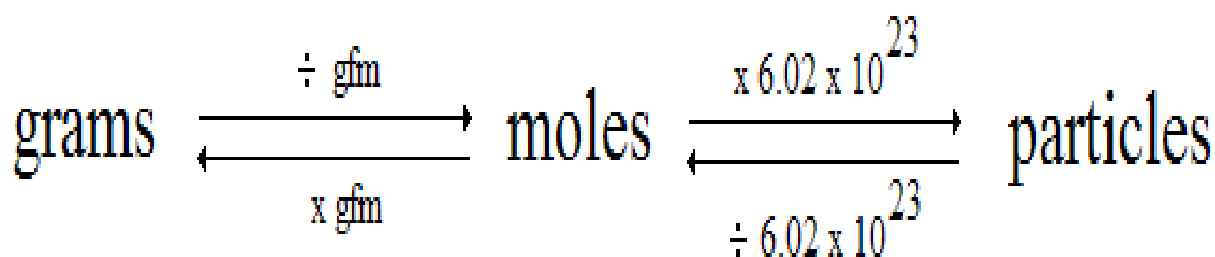
*Google Classroom assignment

After studying chapter 8, you should be able to:

- Calculate the molar mass of any given compound.
- Use molar mass to convert between mass in grams and amount in moles of a chemical compound.
- Define how Avogadro's number is related to a mole of any substance.
- Calculate the number of molecules, formula units, or ions in a given molar amount of a chemical compound.
- Calculate the percentage composition of a given chemical compound or experimental data.
- Calculate the molarity of a solution (Section 15.4 in textbook)
- Use mass data to calculate the mass percent of a solution. (Section 15.3 in textbook)
- Derive the empirical formula of a compound from experimental data (either a percentage or a mass composition).
- Derive the molecular (true) formula of a compound from experimental data.
- Determine the % mass of water in hydrates.
- Use % composition data to determine formulas of hydrates.

Some Useful Websites:

- <http://antoine.frostburg.edu/chem/senese/101/moles/index.shtml> The mole concept
- <http://www.chemistryexplained.com/Ma-Na/Mole-Concept.html>
- <http://www.iun.edu/~cpanhd/C101webnotes/quantchem/moleavo.html>
- <http://www.wvnorton.com/college/chemistry/chemistry3/ch/04/chemtours.aspx>
Chapter 3: Avogadro's number tutorial, percent composition, Ch. 4: Molarity
- <http://www.usetute.com.au/mmcalcul.html> How to calculate molar mass
- <http://www.chem.tamu.edu/class/fyp/stone/tutorialnotefiles/empirical.htm> Empirical formulas
- <https://www.ck12.org/c/chemistry/percent-composition/> Percent composition
- <http://www.iun.edu/~cpanhd/C101webnotes/quantchem/percentcomp.html> Percent composition
- <http://www.usetute.com.au/percentc.html> Percent composition
- http://www.molecularsoft.com/help/Solutions-Percent_By_Mass.htm
- http://www.softschools.com/quizzes/chemistry/stoichiometry_empirical_molecular_formulas/quiz1129.html Empirical formulas practice
- http://www.oneonta.edu/faculty/viningwj/modules/CI_determining_an_empirical_formula_5_7.html
Combustion analysis--uses Flash
- http://preparatorychemistry.com/Bishop_Combustion_Analysis.htm
- <http://www.science.uwaterloo.ca/~cchieh/cact/c120/formula.html> Has practice problems with hints!



Chapter 8 Advance Organizer

