

NAME:

HONORS CHEMISTRY

SECTION:

Reaction Stoichiometry (Chapter 9)

Assignment	Due Date
1. Read Section 9.1 in textbook	Tuesday, 11/27
2. Read through lab handout & set up data table in your lab notebook	
3. §Organic Nomenclature Handout	Wednesday, 11/28
4. Work on hydrate lab formal report	
5. Study for organic nomenclature quiz	Thursday, 11/29
6. Work on hydrate lab formal report	
7. Complete pp. 278-279 #2, 6, 12, 14	Friday, 11/30
8. Work on hydrate lab formal report	
9. § Complete p. 282 #59, 60, 61, 62	Monday, 12/3
10. Finish hydrate lab formal report	
11. §Complete pp. 280-281 #41, 42, 51	Tuesday, 12/4
12. *Go to the online HW site and complete 3 problems of #20 (upload receipt in Classroom) http://chemistry2.csudh.edu/homework/hwintro.html	
13. §Create a concept map for the most important ideas/skills of Chapter 9	Wednesday, 12/5
14. *Google Classroom assignment on using thermochemical equations	
15. Read through lab handout & set up data table in your lab notebook	Thursday, 12/6
16. *Go to the online HW site and complete 5 problems of #22 (upload receipt in Classroom) http://chemistry2.csudh.edu/homework/hwintro.html	
17. *Go to the online HW site and complete 5 problems of #23 (upload receipt in Classroom) http://chemistry2.csudh.edu/homework/hwintro.html	Friday, 12/7
18. §Chapter 9 Review Sheet	Monday, 12/10
19. Study for stoichiometry test	Tuesday, 12/11
20. Finish formal lab report for <i>Calculations with a Chemical Reaction</i> (may be turned in as an individual OR a group report)	Friday, 12/14

Dates to Remember:

Organic Nomenclature Quiz Thursday 11/29

§May be collected or checked in class!

Hydrate Lab Formal Report due Monday, 12/3

*may be checked online

Stoichiometry Test Tuesday, 12/11

Calculations with a Chemical Reaction formal report due Friday, 12/14

After studying chapter 9, you should be able to:

- Interpret balanced chemical equations in terms of interacting moles, representative particles, and masses
- Construct mole ratios from balanced chemical equations and apply these ratios in calculating mole-mole stoichiometric quantities.
- Calculate stoichiometric quantities from balanced chemical equations using units of mass.
- Calculate stoichiometric quantities from balanced chemical equations using units of moles, mass, and representative particles
- Identify the limiting reagent in a reaction and use it to calculate stoichiometric quantities and the amount of excess reagent(s).
- Calculate the theoretical yield, actual yield, and/or percent yield for a chemical reaction.
- Construct equations that show the heat changes for chemical and physical processes.
- Determine the heat absorbed or released for a chemical reaction in which a specified amount of substance is involved.

Some Useful Websites:

- <http://science.widener.edu/svb/tutorial/genstoichiometrycsn7.html>
- <http://www.softschools.com/quizzes/chemistry/> Stoichiometry quizzes I-VI
- <http://science.widener.edu/svb/tutorial/limitreagentcsn7.html> Practice identifying the limiting reactant—gives answer after 1 unsuccessful attempt
- <http://www.science.uwaterloo.ca/~cchieh/cact/c120/limitn.html>
- <http://www.kentchemistry.com/links/Math/Limiting.htm> a different strategy for LR problems
- <http://www.iun.edu/~cpanhd/C101webnotes/quantchem/thtclandpctyld.html>
- <http://www.usetute.com.au/exceslim.html>
- <http://www.chembuddy.com/?left=balancing-stoichiometry&right=limiting-reagents>
- <http://www.shodor.org/unchem/basic/stoic/index.html>
- <http://www.sciencegeek.net/Chemistry/taters/Unit4Stoichiometry.htm>
- <http://phet.colorado.edu/en/simulation/reactants-products-and-leftovers> PhET simulation
- <http://www.wisc-online.com/objects/ViewObject.aspx?ID=GCH7504> Tutorial on rxn stoichiometry
- <http://www.wisc-online.com/objects/ViewObject.aspx?ID=GCH7304> Tutorial on mole ratios
- <http://www.wwnorton.com/college/chemistry/chemistry3/ch/03/chemtours.aspx> Chapter 3 tutorials
 - Balancing Equations
 - Limiting Reactant

