Chemistry CP

Name:

TFF#12 Assignments: Reaction Stoichiometry (Chapter 9) Section:

Assignment	Due Date
1. Handout	Thursday, 2/14
2. p. 287 #1-4 3. Practice Ch. 9 vocabulary (one column on pair tutoring sheet)	Friday, 2/15
4. p. 296 # 9-12 5. Practice Ch. 9 vocabulary (one column on pair tutoring sheet)	Tuesday, 2/25
6. Handout: Limiting reagent problems 7. Practice Ch. 9 vocabulary (one column on pair tutoring sheet)	Wednesday, 2/27
8. p. 297 #28, 29 9. Prelab assignment	Thursday, 2/28
10. p. 294 #1-4	Friday, 3/1
11. Mixed problem set	Monday, 3/4
12. Study for chapter 9 test (TFF #12)	Tuesday, 3/5
13. Formal individual lab report for stoichiometry lab	Thursday, 3/7

Dates to Remember:
Chapter 9 Test: Tuesday, 3/5

Some Useful Websites:
http://www.sciencegeek.net/Chemistry/taters/Unit4Stoichiometry.htm
http://www.chemtutor.com/mols.htm
http://chemistry2.csudh.edu/lecture_help/startrxnmasses.html mass to mass problems (gives solution after 3 attempts)
http://chemistry2.csudh.edu/lecture_help/startrxnpercentwp.html percent yield problems (gives solution after 3 attempts)
http://chemistry2.csudh.edu/newlechelp/usinglimitreagentcs.html gives complete solution after 3 attempts
http://www.science.uwaterloo.ca/~cchieh/cact/c120/limitn.html limiting reagent
http://www.towson.edu/~ladon/limreas.html limiting reagent
http://www.iun.edu/~cpanhd/C101webnotes/quantchem/thtclandpctyld.html theoretical and % yield

After studying chapter 9, you should be able to:

- Interpret balanced chemical equations in terms of interacting moles, representative particles, masses, and volumes (at STP).
- 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, representative particles, and volume (gases at STP).
- 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.