

NAME:

## HONORS CHEMISTRY

SECTION:

### Chemical Reactions Assignment Sheet

Assignment	Due Date
1. §Complete formal lab report: Determination of an Empirical formula	Friday, 10/19
2. Study names and symbols of "More Elements"	
3. Study names and symbols of "Even More Elements"	Monday, 10/22
4. §Go to <a href="http://chemistry2.csudh.edu/homework/hwintro.html">http://chemistry2.csudh.edu/homework/hwintro.html</a> and complete 10 problems of #19—upload receipt in Google Classroom!	
5. Study names and symbols of "Even More Elements"	Tuesday, 10/23
6. §Virtual single replacement lab	
7. Study names and symbols of "Even More Elements"	Wednesday, 10/24
8. Read pp. 145-149 in textbook	
9. §Complete pp. 159-161 #2, 4, 6, 7-12	
10. §Complete the classifying reactions puzzle	Thursday, 10/25
11. Read pp. 167-169, 179-183, 186-187	
12. §Complete p. 197-199 #31-32, 40-43, 51, 71, 75, 77	
13. §Create a concept map about chemical reactions	Friday, 10/26
14. § Review sheet	Monday, 10/29
15. Study for test on chemical reactions	Tuesday, 10/30
16. Finish double displacement minilab	Wednesday, 10/31

**Dates to Remember:** §may be checked or collected in class  
Chemical Reactions Test: Tuesday, 10/30  
Term 1 ends on Thursday, 11/1

**After studying chapters 6 and 7, you should be able to:**

- List indirect evidence that a reaction has occurred.
- Identify the reactants and products in a chemical reaction.
- Rewrite a chemical equation from a description of a chemical reaction using appropriate symbols and formulas.
- Demonstrate the ability to write and balance chemical reactions when given the names or formulas of all reactants and products.
- Classify a reaction as synthesis, decomposition, single replacement, double displacement (precipitation), or combustion.
- Classify reactions as redox or non-redox.
- Identify acid-base reactions.
- State the driving forces that predict whether a reaction will occur.
- Predict the products of simple reactions given the reactants.
- Use the activity series of metals to predict whether a given reaction will occur and to predict the products of single replacement reactions.
- Use solubility tables to predict precipitant formation.
- Write net ionic equations for double displacement reactions.

### Some Useful Websites:

- [http://nobel.scas.bcit.ca/chem0010/unit8/8.2\\_balance.htm](http://nobel.scas.bcit.ca/chem0010/unit8/8.2_balance.htm)
- <http://education.jlab.org/elementbalancing/index.html>
- <http://users.wfu.edu/ylwong/balanceeq/balanceq.html> an interactive tutorial (uses Flash)
- <http://www.sciencegeek.net/Chemistry/taters/EquationBalancing.htm>
- [http://www.mpcfaculty.net/mark\\_bishop/balancing\\_equations\\_tutorial.htm](http://www.mpcfaculty.net/mark_bishop/balancing_equations_tutorial.htm) (uses Flash)
- <http://chemunder.chemistry.ohio-state.edu/under/chemed/qbank/quiz/bank3.htm>
- [http://nobel.scas.bcit.ca/chem0010/unit8/8.3.2\\_balal.htm](http://nobel.scas.bcit.ca/chem0010/unit8/8.3.2_balal.htm) (an algebraic approach!)
- <http://antoine.frostburg.edu/chem/senese/101/reactions/symptoms.shtml>
- <http://www.iun.edu/~cpanhd/C101webnotes/chemical%20reactions/netioniceq.html>
- <http://www.kentchemistry.com/links/Kinetics/PredictingSR.htm> (Uses Flash)
- <http://antoine.frostburg.edu/chem/senese/101/redox/faq/activity-series.shtml>
- <http://intro.chem.okstate.edu/1515sp01/database/solub.html> A solubility table
- <http://www.shodor.org/unchem/basic/chemreac/#redox> Identifying and classifying redox reactions
- <https://chemfiesta.wordpress.com/2015/04/14/an-introduction-to-redox-reactions/>
- <http://www.chemistryland.com/CHM130FieldLab/Lab8/Lab8.html>

