NAME: **HONORS CHEMISTRY**

SECTION: Chemical Reactions Assignment Sheet

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| **In-class Topic** | **HW (will be posted in GC)** | **Due Date** |
| 10/28 Balancing equations | 1. Read pp. 145-149 in textbook & take notes 2. Complete pp. 159-161 #2, 4, 6, 7-12--upload in GC | Friday, 10/29 |
| 10/29 Descriptive symbols & classes of reactions | 1. Practice: Evidence of chemical change (CK-12) 2. Go to the [Online HW Site](http://chemistry2.csudh.edu/homework/hwintro.html) and complete 20 problems of #19—upload receipt in Google Classroom! | Monday, 11/1 |
| 11/1 Complete vs incomplete combustion  Redox vs non-redox rxns | 1. Practice: Classifying reactions (Quizizz) 2. Read pp. 167-169 & take notes 3. Complete pp. 195-197 #2, 3, 5, 6, 7, 20--upload in GC | Wednesday, 11/3 |
| 11/3 Solubility rules and net ionic equations | 1. Virtual single replacement lab | Thursday, 11/4 |
| 11/4 The activity series and single replacement reactions | 1. Read pp. 179-183, 186-187 in textbook & take notes 2. Complete pp. 197-199 #31-32, 40-43, 51, 60, 71--upload in GC | Friday, 11/5 |
| 11/5 Predicting products | 1. Complete the classifying reactions puzzle (Google Classroom) 2. CK-12 problem set: Solubility rules & precipitation reactions | Monday, 11/8 |
| 11/8 Mixed practice | 1. CK-12 problem set: Using the Activity Series | Tuesday, 11/9 |
| 11/9 Double Displacement Minilab | 1. Finish double displacement minilab | Wednesday, 11/10 |
| 11/10 Names and formulas of hydrocarbons | 1. §Create a concept map about chemical reactions | Friday, 11/12 |
| 11/12 Empirical and molecular formulas | 1. §Reactions review sheet | Monday, 11/15 |
| 11/15 Review for reactions test | 1. Study for test on chemical reactions | Tuesday, 11/16 |
| 11/16 Reactions test | 1. Google Classroom assignment—factor label review | Wednesday, 11/17 |

**Dates to Remember:**

Chemical Reactions Test: Tuesday, 11/15

Term 1 ends on Friday, 11/5

**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:**

* [Word equations (CK-12)](https://flexbooks.ck12.org/user:a3zhbmrlcnzlzw5achnoyxj2yxjklm9yzw../cbook/ck-12-chemistry-for-high-school/section/7.1/)
* <http://antoine.frostburg.edu/chem/senese/101/reactions/symptoms.shtml>
* [Balancing equations (CK-12)](https://flexbooks.ck12.org/user:a3zhbmrlcnzlzw5achnoyxj2yxjklm9yzw../cbook/ck-12-chemistry-for-high-school/section/7.3/primary/lesson/balancing-equations/)
* <http://nobel.scas.bcit.ca/chem0010/unit8/8.2_balance.htm>
* <http://education.jlab.org/elementbalancing/index.html>
* <http://www.sciencegeek.net/Chemistry/taters/EquationBalancing.htm>
* <http://nobel.scas.bcit.ca/chem0010/unit8/8.3.2_balal.htm> (an algebraic approach!)
* [Synthesis reactions (CK-12)](https://flexbooks.ck12.org/user:a3zhbmrlcnzlzw5achnoyxj2yxjklm9yzw../cbook/ck-12-chemistry-for-high-school/section/7.4/primary/lesson/synthesis-reactions/)
* [Decomposition reactions (CK-12)](https://flexbooks.ck12.org/user:a3zhbmrlcnzlzw5achnoyxj2yxjklm9yzw../cbook/ck-12-chemistry-for-high-school/section/7.5/)
* [Double displacement reactions (CK-12)](https://flexbooks.ck12.org/user:a3zhbmrlcnzlzw5achnoyxj2yxjklm9yzw../cbook/ck-12-chemistry-for-high-school/section/7.10/primary/lesson/double-displacement-reactions/)
* [Molecular and ionic equations (CK-12)](https://flexbooks.ck12.org/user:a3zhbmrlcnzlzw5achnoyxj2yxjklm9yzw../cbook/ck-12-chemistry-for-high-school/section/7.11/primary/lesson/molecular-and-ionic-equations/)
* [Net ionic equations (CK-12)](https://www.ck12.org/c/chemistry/net-ionic-equation/lesson/user:a3zhbmrlcnzlzw5achnoyxj2yxjklm9yzw../Net-Ionic-Equations/?collectionCreatorID=3&conceptCollectionHandle=chemistry-%3A%3A-net-ionic-equation&collectionHandle=chemistry)
* [Single replacement reactions (CK-12)](https://flexbooks.ck12.org/user:a3zhbmrlcnzlzw5achnoyxj2yxjklm9yzw../cbook/ck-12-chemistry-for-high-school/section/7.7/primary/lesson/single-replacement-reactions/)
* <http://www.chemistryland.com/CHM130FieldLab/Lab8/Lab8.html>
* <http://antoine.frostburg.edu/chem/senese/101/redox/faq/activity-series.shtml>
* <http://intro.chem.okstate.edu/1515SP01/Database/Solub.html> A solubility table
* [Identifying redox reactions (CK-12)](https://flexbooks.ck12.org/user:a3zhbmrlcnzlzw5achnoyxj2yxjklm9yzw../cbook/ck-12-chemistry-for-high-school/section/7.8/)
* <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/>

Dr V's webcasts:

[Classes of reactions](https://youtu.be/40n7lLr3GAk)

[Complete vs incomplete combustion, redox vs non-redox reactions](https://youtu.be/0pgczcaoJNw)

[Predicting products](https://youtu.be/kWS5VHBz9L0)

[The Activity Series](https://youtu.be/IcDfusQS1eI)

