

NAME: **HONORS CHEMISTRY**

SECTION: **CHEMICAL NOMENCLATURE ASSIGNMENT SHEET (CHAPTER 5)**

Assignment	Due Date
1. Poetry project rough draft—submit in Google Classroom	Friday, 10/6
2. Study the polyatomic ions (at least 2 columns on pair tutoring sheet) <i>Figure out patterns for ate vs. ite</i>	
3. §Complete pp. 137-141 #29-36, 41, 45, 80, 81	Tuesday, 10/10
4. Study the polyatomic ions <i>Figure out the pattern for the hydrogen polyatomics</i>	Wednesday, 10/11
5. Study for polyatomic ions quiz	
6. §Handout on writing ionic names and formulas	Thursday, 10/12
7. Learn the names and symbols for elements 21-30—1 column on pair tutoring sheet	
8. §Handout on writing molecular names and formulas	Friday, 10/13
9. Learn the names and symbols for elements 21-30—1 column on pair tutoring sheet	
10. *Google classroom assignment on acid nomenclature (will be checked online)	Monday, 10/16
11. §Complete the prelab questions, set up lab notebook	
12. Learn the names and symbols for elements 21-30—2 columns on pair tutoring sheet	Tuesday, 10/17
13. *Complete Google Classroom assignment (will be checked online)	
14. Work on <i>Determining an Empirical Formula</i> formal individual lab report	Thursday, 10/19
15. Complete the Chapter 5 review sheet (answer key will be posted online)	
16. Study for Chapter 5 Test: A useful site online HW site #59, 60, 84 (skip unfamiliar polyatomic ions)	Monday, 10/23
17. §Finish the <i>Determining an Empirical Formula</i> formal, individual lab report	
18. Learn the names and symbols for “More Elements”—2 columns on pair tutoring sheet	
19. Learn the names and symbols for “More Elements”—1 column on pair tutoring sheet	
20. §Turn in completed poetry project	

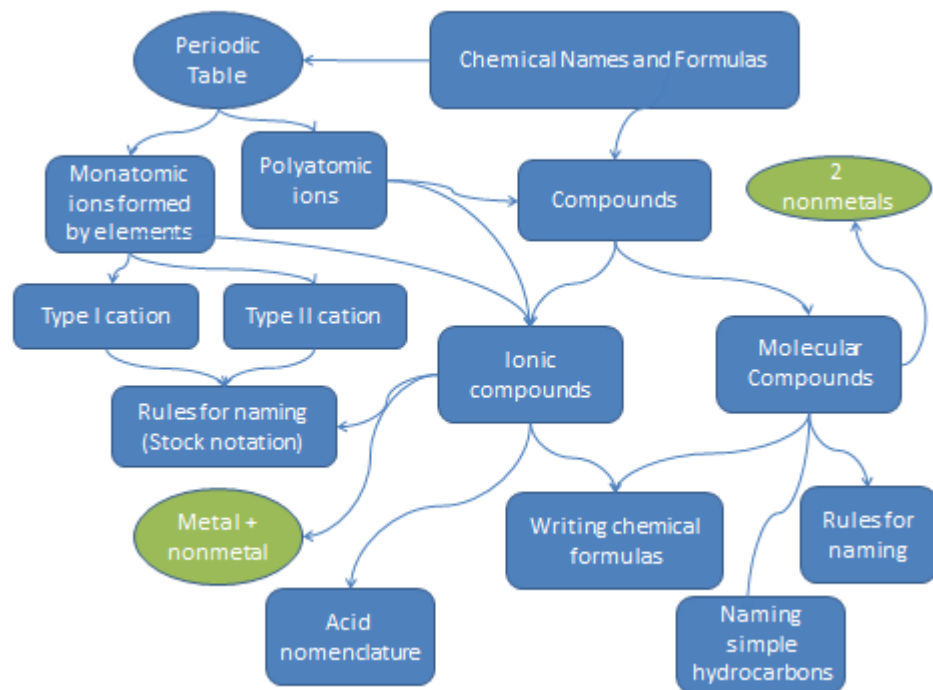
**Dates to Remember:**

Quiz on polyatomic ions: Wednesday, 10/11  
Quiz on elements 21-30 Monday, 10/16  
Short Chapter 5 Test: Tuesday, 10/17  
Poetry Project Final Draft due Monday, 10/23

§May be checked or collected in class

\*Will be checked online

Chapter 5 Advance Organizer



**After studying chapter 5, you should be able to:**

- Infer the charge on a monatomic ion using the periodic table.
- Relate the formula of a compound to the numbers and types of atoms in the compound.
- Classify compounds as either ionic or molecular.
- Define a polyatomic ion and memorize the names and formulas of common polyatomic ions.
- Determine the formula of an ionic compound formed between two given ions.
- Name an ionic compound (Type I, Type II, and ternary compounds) given its formula.
- Using prefixes, name a binary molecular compound (Type III) from its formula.
- Write the formula of a binary molecular compound given its name.
- Write the name of an acid from its formula
- State the formula of an acid from its name.

**Some Useful Websites:**

- <https://www.wisc-online.com/learn/natural-science/chemistry/gch603/chemical-formulas> A good overview for the chapter
- <https://www.wisc-online.com/learn/natural-science/chemistry/gch3004/oxidation-states-of-ions>
- [http://www.angelo.edu/faculty/kboudrea/general/formulas\\_nomenclature/Formulas\\_Nomenclature.htm#Types%20of%20Compounds](http://www.angelo.edu/faculty/kboudrea/general/formulas_nomenclature/Formulas_Nomenclature.htm#Types%20of%20Compounds)
- <http://www.quia.com/jg/65767.html> matching, concentration, and word search online activities
- <http://www.sciencegeek.net/Concentration/Cations/cations.html> cation formula practice
- <http://www.sciencegeek.net/Concentration/Anions2/anions.html> anion formula practice
- <http://www.sciencegeek.net/Chemistry/taters/Unit4IonicCompoundFormulas.htm>
- <http://www.sciencegeek.net/Chemistry/taters/ions/page1.htm> formula writing practice
- <http://www.quia.com/jg/65800.html> practice for binary ionic compounds
- <http://www.fernbank.edu/Chemistry/nomen.htm> Includes interactive practice problems
- <http://www.chemteam.info/Nomenclature/Acid-Nomenclature.html>
- [http://preparatorychemistry.com/Bishop\\_acid\\_nomenclature\\_help.htm](http://preparatorychemistry.com/Bishop_acid_nomenclature_help.htm)
- <http://www.kentschools.net/ccarman/cp-chemistry/practice-quizzes/compound-naming/>  
Interactive practice (don't select molar mass calculations—that is a later unit!)
- <http://www.chemfiles.com/flash/formulas.html>