

CHAPTER 7&8 ACCELERATED CHEMISTRY REVIEW SHEET

Nomenclature and Properties of Ionic, Covalent, and Metallic compounds

The test contains 40 total questions – 24 multiple choice, 10 fill in the blank, and 6 short answer. You should study the following review sheet, your previous two quizzes, book problems, and practice quizzes and worksheets. Tests are weighted at 60% of your grade so be sure to prepare properly.

For the test you should be able to:

- 1. KNOW YOUR POLY IONS!!**
2. Name and write formulas for any of the following:
 - a. Monatomic ions
 - b. Poly atomic ions
 - c. Covalent Molecules
 - d. Ionic compounds
 - e. Acids (Extra credit)
3. Predict the ion most likely to form using the periodic table
4. Given electron configuration predict the ion most likely to form
5. Predict the ratio in an ionic compound based on the elements position on the periodic table.
6. Describe the attraction that occurs in a:
 - a. Covalent bond
 - b. Ionic bond
 - c. Metallic bond
7. Describe the model of an ionic compound and a metallic bond.
8. Identify the number of electrons transferred in an ionic bond
9. Describe the properties of an ionic compound, metallic compound, and a covalent compound
10. Explain the Electron behavior in a covalent and ionic bond
11. Use the models of metals (sea of electrons), Ionic (Crystal lattice), and covalent (molecules) to explain the reasons for their properties.
12. Describe why roman numerals are used in writing formulas of ionic compounds
13. Identify the number of valence electrons in an atom