

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Chemistry Worksheet

# Chemical Bonding

References to online textbook chapters and sections are listed after each question.

1. What is the relationship between electronegativity and the ionic character of a chemical bond? (Reference: Chemistry textbook section 6-1)
2. What is the meaning of the term "polar", as applied to chemical bonding? (6-1)
3. Distinguish between polar-covalent and nonpolar-covalent bonds. (6-1)
4. In general, what determines whether atoms will form chemical bonds? (6-1)
5. What is a molecule? (6-2)
6. As applied to covalent bonding, what is meant by an unshared or lone pair of electrons? (6-2)
7. Determine the number of valence electrons in an atom of each of the following elements: (6-2)

a. H	e. Al
b. F	f. N
c. Mg	g. C
d. O	h. B
8. When drawing Lewis structures, which atom is usually the central atom? (6-2)
9. Distinguish between single, double, and triple covalent bonds by defining each and providing an illustration of each type. (6-2)