

Chapter 10: Covalent Bonding Review Worksheet

Section 10.1: Molecular Compounds

1. Classify each of the following as an acid or base:

- a. HCl b. H_2O c. HCl_2 d. H_2SO_4 e. HNO_3

2. Which of the following are diatomic molecules?

- a. O_2 b. H_2 c. N_2 d. H_2O e. CO_2

3. What types of elements usually combine to form molecular compounds?

4. What information does a molecular formula provide?

5. How do ionic compounds and molecular compounds differ in their relative melting and boiling points?

Section 10.2: The Nature of Covalent Bonding & Section 10.3: Bonding Theories

6. Draw the electron-dot structure for the following compounds. Also provide the shape and bond angle for each.

a. NH_3	e. H_2O
b. HCl	f. C_2H_2
c. CO_2	g. SO_2
d. H_2O_2	h. NH_4^+
i. H_2SO_4	j. H_2SO_3