

NAME \_\_\_\_\_

### FORMULAS AND NAMES OF MOLECULAR COMPOUNDS WORKSHEET – Answer Key

**Introduction:** When you began chemistry class this year, you probably already knew that the chemical formula for carbon dioxide was  $\text{CO}_2$ . Today you will find out why  $\text{CO}_2$  is named that way. Naming chemical compounds correctly is of paramount importance. The slight difference between the names carbon monoxide ( $\text{CO}$ , a poisonous, deadly gas) and carbon dioxide ( $\text{CO}_2$ , a greenhouse gas that we exhale when we breathe out) can be the difference between life and death! In this activity, you will learn the naming system for molecular compounds.

**Instructions:** Answer the following questions on separate loose-leaf paper. Listen to the teacher for directions on which questions to work on. Work only on the questions specified by the teacher.

#### PART 1: CHEMICAL FORMULAS AND NAMES FOR COVALENT COMPOUNDS

##### MODEL 1 – MOLECULAR COMPOUNDS

Molecular Formula	Number of Atoms of First Element	Number of Atoms of Second Element	Name of Compound
$\text{ClF}$	1	1	Chlorine monofluoride
$\text{ClF}_5$	1	5	Chlorine pentafluoride
$\text{CO}$	1	1	Carbon monoxide
$\text{CO}_2$	1	2	Carbon dioxide
$\text{Cl}_2\text{O}$	2	1	Dichlorine monoxide
$\text{PCl}_5$	1	5	Phosphorus pentachloride
$\text{N}_2\text{O}_5$	2	5	Dinitrogen pentoxide

1. Fill in the table to indicate the number of atoms of each type in the molecular formula. [6]  
**See Model 1**
2. Examine the molecular formulas given in Model 1 for various molecular compounds. How many different *elements* are present in each compound shown? [1]  
**There are two elements present in each compound.**
3. What type of compounds are represented by these formulas? Why? [3]  
**These are molecular compounds because there are two nonmetals in each formula.**
4. Find all the compounds in Model 1 that have chlorine and fluorine in them. Explain why the name "chlorine fluoride" is not sufficient to identify a specific compound. [3]  
**There are two compounds with chlorine and fluorine. The name "chlorine fluoride" does not indicate which compound it refers to. It could be the compound with one fluorine atom or the compound with five fluorine atoms.**

# Chapter 10 Prentice Hall Chemistry Answers

**Chunlong Zhang**



## Chapter 10 Prentice Hall Chemistry Answers:

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Unsaturated Zone Hydrology for Scientists and Engineers James A. Tindall, James R. Kunkel, Dean E. Anderson, 1999

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