

## Naming Molecular Compounds

### Why?

How are the chemical formula and name of a molecular compound related?

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.

### Model 1 – Molecular Compounds

Molecular Formula	Number of Atoms of First	Number of Atoms of Second	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	5	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

- Fill in the table to indicate the number of atoms of each type in the molecular formula.
- Examine the molecular formulas given in Model 1 for various molecular compounds.
  - How many different *elements* are present in each compound shown?  
**Two**
  - Do the compounds combine metals with metals, metals with nonmetals, or nonmetals with nonmetals?  
**Non-metals with non-metals**
  - Based on your answer to b, what type of bonding must be involved in molecular compounds?  
**Covalent bonds**
- Find all of 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.  
**The number of fluorine atoms is different in the two compounds, but name does not reflect the difference**
- Assuming that the name of the compound gives a clue to its molecular formula, predict how many atoms each of these prefixes indicates, and provide two examples.

# Naming Molecular Compounds Pogil Answers Key

**A Loxley**



## **Naming Molecular Compounds Pogil Answers Key:**

## Adopting the Melody of Appearance: An Mental Symphony within **Naming Molecular Compounds Pogil Answers Key**

In a world consumed by displays and the ceaseless chatter of fast conversation, the melodic splendor and psychological symphony created by the published term often disappear in to the background, eclipsed by the relentless noise and disturbances that permeate our lives. However, located within the pages of **Naming Molecular Compounds Pogil Answers Key** a marvelous literary treasure brimming with natural feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this fascinating masterpiece conducts viewers on a mental trip, well unraveling the hidden songs and profound impact resonating within each cautiously crafted phrase. Within the depths with this touching analysis, we will examine the book is key harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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