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| **Science 10 – Chemistry****Naming Covalent Compounds** | **Name:Date:Block:** |

**COVALENT COMPOUNDS**

**RULE:**

* A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ indicates the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of atoms of each element in a formula
* Do not put a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ when there is only \_\_\_\_\_\_\_\_\_\_\_\_ atom of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ element
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are not important

|  |  |
| --- | --- |
| **Prefix** | **Number** |
| mono | 1 |
| di | 2 |
| tri | 3 |
| tetra | 4 |
| penta | 5 |
| hexa | 6 |
| hepta | 7 |
| octa | 8 |
| nona | 9 |
| deca | 10 |

* **Example 1: CO**
1. What is the left most element? How many atoms are there? Identify with a prefix. Do not put a prefix when there is only one atom of the first element. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the second element? How many atoms are there? Identify with a prefix. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**CO =** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* **Example 2: N2O3**
1. What is the left most element? How many atoms are there? Identify with a prefix. Do not put a prefix when there is only one atom of the first element. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the second element? How many atoms are there? Identify with a prefix. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**N2O3 =** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* **Example 3: CS2**
1. What is the left most element? How many atoms are there? Identify with a prefix. Do not put a prefix when there is only one atom of the first element. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the second element? How many atoms are there? Identify with a prefix. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**CS2 =** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* **Example 4: CH4 -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Example 5: NH3 -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Example 6: H2O -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Elements found in Pairs:** The Covalent Diatomics

**Pneumonic to help you remember the 7 diatomic pairs!**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **H** | **O** | **F** | **Br** | **I** | **N** | **Cl** |
| Hydrogen | Oxygen | Fluorine | Bromine | Iodine | Nitrogen | Chlorine |

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