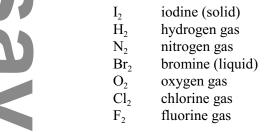
## **Naming Molecular Compounds**

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Some molecular	Combounds	Have	COMMINION	Haines	HKC.

water $H_2O$ methane $CH_4$ ammonia $NH_3$ Ozone $O_3$ Hydrogen peroxide $H_2O_2$ 

Some molecular compounds are composed of diatomic molecules, and have the following names...



(Note: an easy way to remember: I Have No Bright Or Clever Friends)

The rest of the molecular compounds are named using the **prefix system:** 

0
O
0

Number	Prefix
1	mono
2	di
3	tri
4	tetra
5	penta

- The number of each atom in the molecule is indicated by a prefix.
- If the first element has only one atom, then the prefix mono is omitted.
- change the ending of the second element to "ide".

Formula:

## prefix + element name prefix + element name + ide

 $\begin{array}{cccc} Examples: & P_2S_3 & \textbf{di}phosphorus \textbf{tri}sulfide \\ & N_2O_5 & \textbf{di}nitrogen \textbf{pent}oxide \\ & CO_2 & carbon \textbf{di}oxide \\ & CO & carbon \textbf{mono}xide \\ & N_2O_4 & \textbf{di}nitrogen \textbf{tetr}oxide \\ & SCl_2 & sulfur \textbf{di}chloride \\ \end{array}$ 

Ν	ame	the	<u>tol</u>	low	ing

1. CBr <sub>4</sub>	2. NI <sub>3</sub>	
3. OF <sub>2</sub>	4. SiCl <sub>4</sub>	
5. Cl <sub>2</sub> O <sub>7</sub>	6. IF <sub>5</sub>	
7. CS <sub>2</sub> 9. SiC	8. P <sub>2</sub> O <sub>5</sub>	
9. SiC	10. PBr <sub>3</sub>	