Key.

Naming Molecular Compounds

A molecular compound is one that contains two (or more) non-metals. (no metals are present)

1. Each compound name is made or two words, each with a suitable prefix:

Prefix used	# of atoms	Prefix used	# of atoms
mono	1	hexa	6
di	2	hepta	7
tri	3	octa	8
tetra	4	nona	9
penta	5	deca	10

2. The first name is simply the name of the first element, with a prefix to indicate how many or these atoms exist in each molecule:

Ex. $P_2S_3 \rightarrow$ the first name is diphosphorous

3. The second name is the name of the second element, with an "ide" ending on the elements name and a prefix to indicate how many of these atoms exist in each molecule.

Ex. $P_2S_3 \rightarrow$ the second name is trisulphide

Name the following:

The complete name is diphosphorous trisulphide

4. EXCEPTION: if there is only ONE of the $\underline{\text{first}}$ atom, do NOT use the prefix MONO.

Carlon trioxide

Ex. CO → carbon monoxide, NOT monocarbon monoxide!

1. CO ₃	Carloon to	oxide	
2. NO ₂	nitrocen of	wide	
3. CIF ₃	Chrone	trifluoride	
$4. S_4 N_2$	Tetrasulpho	ir dintride	
5. P ₂ O ₆	Diohospho	ous hexoxide	
6. S ₃ O ₃	Trisulbhu	r trioxide	
	*1		
Write the formu	la for the followir	ng:	
1. Sulphur tri	oxide	SO_2	
2. Phosphoro	us pentachloride	PC/2	
3. Dinitrogen	pentasulphide	N-55	
4. Trisilicon to	etranitride	SISTVI	
5. Bromime h	exafluoride	B2F6	
6. Carbon dio	xide	CO_2	