

Name _____
Period _____

Naming Molecular Compounds Worksheet

Molecular compounds are made of nonmetals atoms bonded together by **sharing** electrons. There are NO IONS and NO CHARGE involved in covalent bonding.

When we name any molecular compound, we need to find the name of each element in the compound and to know the prefixes for the total number of atoms of each element in the compound.

PART 1: Here are the prefixes used in naming molecular compounds. Each prefix indicates a number used in a chemical name. **Write** each prefix next to the **number** that it represents.

hepta	di	tri	non	deca	tetra	penta	octa	hexa	mono
1			2		3		4		5
6			7		8		9		10

PART 2: Name each molecular compound below.

- | | |
|-------------|-------------|
| a) P_3F_4 | e) NO |
| b) BrP_7 | f) $SiCl_6$ |
| c) SO_3 | g) IF_3 |
| d) N_2O_5 | |

PART 3: Write the formula of each molecular compound.

Tribromine nonoxide

Nitrogen dioxide

Sulfur hexafluoride

Pentaoxygen dichloride

Diboron heptoxide

Iodine monobromide

Dihydrogen monoxide

Octanitrogen tetraoxide

Phosphorus tribromide

Carbon tetraiodide

Dinitrogen hexoxide

Carbon monoxide