Sept 26, 2019

Molecular Compounds cont

Test Tuesday!!

Naming Molecular Compounds

• named similarly to ionic compounds (remember though molecular compounds are two non-metals)

Steps

- 1. Name first element listed, with a prefix to count number of atoms (do not use a prefix for one atom of the first element)
- 2. Name second element, with a prefix to count number of atoms.
- 3. Change the suffix of second non-metal to -ide

# of Atoms	Prefix
1	mono
2	di
3	tri
4	tetra
5	penta

Examples of Naming Molecular compounds:

NO nitrogen monoxide

NH₃ nitrogen trihydride

NBO₅ dinitrogen pentaoxide

Writing Formulas

When writing the formulas for molecular compounds. Look at the prefix given and that is what you write as a subscript.

Examples:

dihydrogen monoxide = H₂O carbon tetrahydride = CH₄

Try these

Name each of the following molecular compounds:

- 1. NH₃ nitrogen trihydride 2. CO carbon monoxide 3. N₂O₄ dinitrogen tetra oxide

Write the formulas for each of the following molecular compounds:

- 1. carbon tetrachloride
- 2. phosphorous tribromide Pby
- 3. sulfur trioxide

The following are molecular compounds which have common names

You can choose to write the common name or the molecular name when naming, however if given the common name you need to know how to write the formula.

i.e. CH_4 = carbon tetrahydride = methane

 NH_3 = nitrogen trihydride = ammonia

 $H_2O = dihydrogen monoxide = water$

 H_2O_2 = dihydrogen dioxide = hydrogen peroxide

