

Name: _____ KEY _____

Nomenclature E – Naming Molecules

Recall: Molecules contain two or more nonmetals and use the prefix naming system.

Please name the following molecules:

1. SO_2 sulfur dioxide
2. NO nitrogen monoxide
3. CO_3 carbon trioxide
4. PCl_5 phosphorous pentachloride
5. CCl_4 carbon tetrachloride
6. N_2O_5 dinitrogen pentoxide
7. N_5P_3 pentanitrogen triphosphide
8. SiO_2 silicon dioxide
9. S_2F_{10} disulfur decafluoride
10. CS_2 carbon disulfide
11. Cl_2O_6 dichlorine hexoxide
12. IF_7 iodine heptafluoride
13. P_4O_6 tetraphosphorous hexoxide
14. P_2O_5 diphosphorous pentoxide
15. C_3S_2 tricarbon disulfide

Recall: Molecules are covalent compounds so there are NO ions!!

Please write the appropriate formula for the following molecules:

1. disulfur diiodide S_2I_2
2. iodine monobromide IBr
3. dinitrogen tetraoxide N_2O_4
4. bromine trifluoride BrF_3
5. carbon dioxide CO_2
6. diphosphorous tetrachloride P_2Cl_4
7. iodine heptafluoride IF_7
8. dichlorine hexaoxide Cl_2O_6
9. tetraphosphorous nonasulfide P_4S_9
10. carbon monoxide CO