Name _____ Date _____ Period _____

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Naming/Formulas

Chemistry

Use prefixes to name each molecular compound or write its formula. Never use mono- on the first element, drop the extra vowel before oxide, and never reduce a formula.

1. Name each compound.

(a) CCl_4

(b) N_2O_3

(c) SO_3

(d) SiO_2

(e) IF_7

(f) CO

(g) S_2Cl_2

(h) Cl_2O_7

(i) PBr_3

(j) NO

2. Write the formula for each compound.

(a) dinitrogen tetrafluoride

(b) sulfur dioxide

(c) tetraphosphorus trisulfide

(d) boron trichloride

(e) xenon tetrafluoride

(f) carbon disulfide

(g) nitrogen triiodide

(h) dichlorine monoxide

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3. These compounds use common names. Write the formula for each.

(a) water

(b) ammonia

(c) methane

4. A student named CO_2 “monocarbon dioxide.” Explain the mistake and give the correct name.

5. A student wrote the formula for tetraphosphorus hexoxide as P_2O_3. Explain the mistake and write the correct formula.

6. Name N_2O_5 and P_2O_5. Explain why the prefix on oxygen is the same in both names but the name of the first element is different.

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