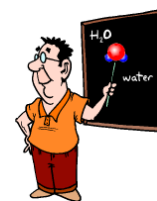


Name: \_\_\_\_\_ Date: \_\_\_\_\_  
IPC

Review



## Writing Chemical Names and Formulas

**DIRECTIONS:** Write the proper root for the following nonmetals.

H = \_\_\_\_\_ C = \_\_\_\_\_ N = \_\_\_\_\_ O = \_\_\_\_\_

F = \_\_\_\_\_ P = \_\_\_\_\_ S = \_\_\_\_\_ Cl = \_\_\_\_\_

**DIRECTIONS:** Correctly name the following polyatomic ions.

\_\_\_\_\_ OH<sup>-</sup> \_\_\_\_\_ PO<sub>4</sub><sup>3-</sup>

\_\_\_\_\_ C<sub>2</sub>H<sub>3</sub>O<sub>2</sub><sup>-</sup> \_\_\_\_\_ CO<sub>3</sub><sup>2-</sup>

\_\_\_\_\_ NO<sub>3</sub><sup>-</sup> \_\_\_\_\_ SO<sub>4</sub><sup>2-</sup>

**DIRECTIONS:** Write the metal cation formula for the following names.

\_\_\_\_\_ copper(I) \_\_\_\_\_ mercury(I) \_\_\_\_\_ copper(II)

\_\_\_\_\_ tin(IV) \_\_\_\_\_ iron(III) \_\_\_\_\_ lead(II)

\_\_\_\_\_ lead(IV) \_\_\_\_\_ tin(II) \_\_\_\_\_ iron(II)

**DIRECTIONS:** Name the following compounds.

\_\_\_\_\_ MgO \_\_\_\_\_ SrCl<sub>2</sub>

\_\_\_\_\_ N<sub>2</sub>O<sub>4</sub> \_\_\_\_\_ CO<sub>2</sub>

\_\_\_\_\_ H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_ Ca(OH)<sub>2</sub>

\_\_\_\_\_ As<sub>2</sub>O<sub>5</sub> \_\_\_\_\_ SiI<sub>4</sub>

\_\_\_\_\_ KOH \_\_\_\_\_ Li<sub>2</sub>O

\_\_\_\_\_ SrS \_\_\_\_\_ P<sub>3</sub>N<sub>5</sub>

\_\_\_\_\_ NH<sub>4</sub>NO<sub>3</sub> \_\_\_\_\_ H<sub>2</sub>O

**DIRECTIONS:** Write formulas for the following compounds. (Use your tools)

_____ calcium hydroxide	_____ sodium chloride
_____ silicon dioxide	_____ sulfur hexafluoride
_____ carbon dioxide	_____ ammonia
_____ magnesium sulfate	_____ chromium (II) fluoride
_____ rubidium bromide	_____ iron (III) oxide
_____ selenium dioxide	_____ hydrogen cyanide
_____ lithium hydride	_____ dinitrogen tetroxide
_____ lead(II) sulfide	_____ sodium fluoride
_____ sulfur trioxide	_____ methane

**DIRECTIONS:** Write the name for the following compounds.

_____ $\text{HC}_2\text{H}_3\text{O}_2$ (aq)	_____ $\text{HCl}$ (aq)
_____ $\text{H}_3\text{PO}_3$ (aq)	_____ $\text{HCN}$ (aq)

**DIRECTIONS:** Write the formula for the following acids.

_____ carbonic acid	_____ sulfurous acid
_____ hydrofluoric acid	_____ nitric acid

**Directions:** Read each statement carefully, and then choose the best answer.

- |   |                      |
|---|----------------------|
| _____ 1. the smallest <u>unit</u> of an ionic compound                        | A. chemical formula  |
| _____ 2. the <u>simplest ratio</u> of atoms in any compound                   | B. empirical formula |
| _____ 3. a <u>symbolic representation</u> of a compound                       | C. formula unit      |
| _____ 4. a small <u>number</u> used to indicate the number atoms or ions      | D. molecular formula |
| _____ 5. the charge an atom is assumed to have in an ion or compound          | E. molecule          |
| _____ 6. a chemical formula that represents one <u>molecule</u> of a compound | F. oxidation         |
| _____ 7. the smallest particle of a <u>covalent compound</u>                  | G. subscript         |

***“We are not creatures of circumstances; we are creators of circumstances.”***  
***--Benjamin Disraeli***