

## Naming Rules / Worksheet #1

Name \_\_\_\_\_ Date \_\_\_\_\_

**Covalent compounds- consist of nonmetal only.****If chemical formula starts with H- it's an acid: find its name or formula in the Acids List.****Exception:**  $\text{H}_2\text{O}$  and  $\text{H}_2\text{O}_2$ .**If chemical formula consist of 2 nonmetals only- use the following naming rules.****Ex:** name the following compound  $\text{-H}_2\text{O}_2$ 

(a) name the first element- unchanged name from PT - hydrogen

(b) for the second element, take **its root** and add ending **-ide** - oxide

(c) add prefixes which will show how many atoms of each element are here in a compound

Answer: **dihydrogen dioxide**Write the names for each of the following covalent compounds.

- |                                     |  |
|-------------------------------------|--|
| (1) $\text{NO}$ - nitrogen monoxide | (2) $\text{HNO}_3$ - nitric acid             |
| (3) $\text{H}_3\text{PO}_4$ _____   | (4) $\text{N}_2\text{O}_3$ _____             |
| (5) $\text{SiO}_2$ _____            | (6) $\text{N}_2\text{O}_5$ _____             |
| (7) $\text{HNO}_2$ _____            | (8) $\text{HBr}$ _____                       |
| (9) $\text{C}_4\text{H}_8$ _____    | (10) $\text{H}_2\text{SO}_3$ _____           |
| (11) $\text{CCl}_4$ _____           | (12) $\text{HC}_2\text{H}_3\text{O}_2$ _____ |
| (13) $\text{HClO}_4$ _____          | (14) $\text{HClO}_3$ _____                   |
| (15) $\text{H}_2\text{SO}_4$ _____  | (16) $\text{H}_2\text{S}$ _____              |
| (17) $\text{HI}$ _____              | (18) $\text{H}_2\text{O}_2$ _____            |
| (19) $\text{Cl}_3\text{F}$ _____    | (20) $\text{N}_2\text{H}_4$ _____            |
| (21) $\text{Cl}_2\text{O}_7$ _____  | (22) $\text{HCl}$ _____                      |
| (23) $\text{NH}_3$ _____            | (24) $\text{H}_2\text{SiO}_4$ _____          |
| (25) $\text{Cl}_2\text{O}_5$ _____  | (26) $\text{PCl}_3$ _____                    |
| (27) $\text{HF}$ _____              | (28) $\text{Cl}_2\text{O}$ _____             |
| (29) $\text{CS}_2$ _____            | (30) $\text{H}_2\text{CO}_3$ _____           |
| (31) $\text{SF}_4$ _____            | (32) $\text{SiC}$ _____                      |
| (33) $\text{P}_2\text{S}_3$ _____   | (34) $\text{F}_2\text{O}_5$ _____            |