

# Naming Various Chemicals

Name \_\_\_\_\_

For each of the following compounds fill in the missing information. In the column titled "Type of Substance" your choices are: acid, ionic, molecular.

| <u>Name</u>                           | <u>Type of Substance</u> | <u>Formula</u>                                  |
|---------------------------------------|--------------------------|-------------------------------------------------|
| 1) sodium carbonate                   | _____                    | _____                                           |
| 2) _____                              | _____                    | HF                                              |
| 3) _____                              | _____                    | P <sub>2</sub> O <sub>5</sub>                   |
| 4) calcium nitrate                    | _____                    | _____                                           |
| 5) dinitrogen monoxide                | _____                    | _____                                           |
| 6) hydrobromic acid                   | _____                    | _____                                           |
| 7) zinc oxide                         | _____                    | _____                                           |
| 8) lead(IV) acetate                   | _____                    | _____                                           |
| 9) _____                              | _____                    | FeO                                             |
| 10) _____                             | _____                    | K <sub>2</sub> O                                |
| 11) _____                             | _____                    | ZnS                                             |
| 12) aluminum chloride                 | _____                    | _____                                           |
| 13) _____                             | _____                    | Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> |
| 14) diphosphorous pentachloride _____ | _____                    | _____                                           |
| 15) _____                             | _____                    | Cu(NO <sub>3</sub> ) <sub>2</sub>               |
| 16) _____                             | _____                    | HNO <sub>3</sub>                                |
| 17) sulfuric acid                     | _____                    | _____                                           |
| 18) _____                             | _____                    | HCl                                             |
| 19) carbon tetrachloride              | _____                    | _____                                           |
| 20) _____                             | _____                    | CO                                              |
| 21) trinitrogen hexachloride          | _____                    | _____                                           |
| 22) copper(II) sulfate                | _____                    | _____                                           |
| 23) sulfur dioxide                    | _____                    | _____                                           |
| 24) _____                             | _____                    | CO <sub>2</sub>                                 |
| 25) _____                             | _____                    | H <sub>2</sub> O                                |
| 26) aluminum oxide                    | _____                    | _____                                           |
| 27) _____                             | _____                    | P <sub>4</sub> O <sub>10</sub>                  |
| 28) _____                             | _____                    | H <sub>2</sub> SO <sub>4</sub>                  |

## Naming Various Chemicals 2

Name \_\_\_\_\_

For each of the following compounds fill in the missing information. In the column titled "Type of Substance" your choices are: acid, ionic, molecular.

| <u>Name</u>                     | <u>Type of Substance</u> | <u>Formula</u>                                                 |
|---------------------------------|--------------------------|----------------------------------------------------------------|
| 1) sodium carbonate             | ionic                    | Na <sub>2</sub> CO <sub>3</sub>                                |
| 2) hydrofluoric acid            | acid                     | HF                                                             |
| 3) diphosphorous pentoxide      | molecular                | P <sub>2</sub> O <sub>5</sub>                                  |
| 4) calcium nitrate              | ionic                    | Ca(NO <sub>3</sub> ) <sub>2</sub>                              |
| 5) dinitrogen monoxide          | molecular                | N <sub>2</sub> O                                               |
| 6) hydrobromic acid             | acid                     | HBr                                                            |
| 7) zinc oxide                   | ionic                    | ZnO                                                            |
| 8) lead(IV) acetate             | ionic                    | Pb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>4</sub> |
| 9) Iron(II) oxide               | ionic                    | FeO                                                            |
| 10) potassium oxide             | ionic                    | K <sub>2</sub> O                                               |
| 11) Zinc sulfide                | ionic                    | ZnS                                                            |
| 12) aluminum chloride           | ionic                    | AlCl <sub>3</sub>                                              |
| 13) aluminum sulfate            | ionic                    | Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>                |
| 14) diphosphorous pentachloride | molecular                | P <sub>2</sub> O <sub>5</sub>                                  |
| 15) copper(II) nitrate          | ionic                    | Cu(NO <sub>3</sub> ) <sub>2</sub>                              |
| 16) nitric acid                 | acid                     | HNO <sub>3</sub>                                               |
| 17) sulfuric acid               | acid                     | H <sub>2</sub> SO <sub>4</sub>                                 |
| 18) hydrochloric acid           | acid                     | HCl                                                            |
| 19) carbon tetrachloride        | molecular                | CCl <sub>4</sub>                                               |
| 20) carbon monoxide             | molecular                | CO                                                             |
| 21) trinitrogen hexachloride    | molecular                | N <sub>3</sub> Cl <sub>6</sub>                                 |
| 22) copper(II) sulfate          | ionic                    | CuSO <sub>4</sub>                                              |
| 23) sulfur dioxide              | molecular                | SO <sub>2</sub>                                                |
| 24) carbon dioxide              | molecular                | CO <sub>2</sub>                                                |
| 25) water                       | molecular                | H <sub>2</sub> O                                               |
| 26) aluminum oxide              | ionic                    | Al <sub>2</sub> O <sub>3</sub>                                 |
| 27) tetraphosphorous decoxide   | molecular                | P <sub>4</sub> O <sub>10</sub>                                 |
| 28) sulfuric acid               | acid                     | H <sub>2</sub> SO <sub>4</sub>                                 |

