

Name : ..... Date : .....

## Ionic and Covalent Chemical Bonding Worksheet

Fill in the table with the correct information.

| Compound                       | 1st element (Metal or Non-metal) | 2nd element (Metal or Non-metal) | Type of Bond |
|--------------------------------|----------------------------------|----------------------------------|--------------|
| CaO                            |                                  |                                  |              |
| NO <sub>2</sub>                |                                  |                                  |              |
| HF                             |                                  |                                  |              |
| AlF <sub>3</sub>               |                                  |                                  |              |
| NaCl                           |                                  |                                  |              |
| MgBr <sub>2</sub>              |                                  |                                  |              |
| SO <sub>2</sub>                |                                  |                                  |              |
| PI <sub>3</sub>                |                                  |                                  |              |
| H <sub>2</sub> O               |                                  |                                  |              |
| CuCl <sub>2</sub>              |                                  |                                  |              |
| O <sub>2</sub>                 |                                  |                                  |              |
| K <sub>2</sub> O               |                                  |                                  |              |
| CCl <sub>4</sub>               |                                  |                                  |              |
| CO <sub>2</sub>                |                                  |                                  |              |
| Rb <sub>2</sub> S              |                                  |                                  |              |
| NBr <sub>3</sub>               |                                  |                                  |              |
| Fe <sub>2</sub> O <sub>3</sub> |                                  |                                  |              |

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### Answers

| Compound                       | 1st element (Metal or Non-metal) | 2nd element (Metal or Non-metal) | Type of Bond |
|--------------------------------|----------------------------------|----------------------------------|--------------|
| CaO                            | Ca (Metal)                       | O (Non-metal)                    | Ionic        |
| NO <sub>2</sub>                | N (Non-metal)                    | O (Non-metal)                    | Covalent     |
| HF                             | H (Non-metal)                    | F (Non-metal)                    | Covalent     |
| AlF <sub>3</sub>               | Al (Metal)                       | F (Non-metal)                    | Covalent     |
| NaCl                           | Na (Metal)                       | Cl (Non-metal)                   | Ionic        |
| MgBr <sub>2</sub>              | Mg (Metal)                       | Br (Non-metal)                   | Ionic        |
| SO <sub>2</sub>                | S (Non-metal)                    | O (Non-metal)                    | Covalent     |
| PI <sub>3</sub>                | P (Non-metal)                    | I (Non-metal)                    | Covalent     |
| H <sub>2</sub> O               | H (Non-metal)                    | O (Non-metal)                    | Covalent     |
| CuCl <sub>2</sub>              | Cu (Metal)                       | Cl (Non-metal)                   | Ionic        |
| O <sub>2</sub>                 | O (Non-metal)                    | O (Non-metal)                    | Covalent     |
| K <sub>2</sub> O               | K (Metal)                        | O (Non-metal)                    | Ionic        |
| CCl <sub>4</sub>               | C (Non-metal)                    | Cl (Non-metal)                   | Covalent     |
| CO <sub>2</sub>                | C (Non-metal)                    | O (Non-metal)                    | Covalent     |
| Rb <sub>2</sub> S              | Rb (Metal)                       | S (Non-metal)                    | Ionic        |
| NBr <sub>3</sub>               | N (Non-metal)                    | Br (Non-metal)                   | Covalent     |
| Fe <sub>2</sub> O <sub>3</sub> | Fe (Metal)                       | O (Non-metal)                    | Ionic        |