

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

**WORKSHEET: Chemical Bonding – Ionic & Covalent!****REMEMBER...****Ionic Bond**

between a Metal and Non-Metal (M + NM)

**Covalent Bond**

between a Non-Metal and Non-Metal (NM + NM)

**PART 1:** Determine if the elements in the following compounds are metals or non-metals. Describe the type of bonding that occurs in the compound.

| Compound                       | Element 1<br>(metal or non-metal?) | Element 2<br>(metal or non-metal?) | Bond Type |
|--------------------------------|------------------------------------|------------------------------------|-----------|
| NO <sub>2</sub>                | N = non-metal                      | O = non-metal                      | covalent  |
| NaCl                           |                                    |                                    |           |
| SO <sub>2</sub>                |                                    |                                    |           |
| PI <sub>3</sub>                |                                    |                                    |           |
| MgBr <sub>2</sub>              |                                    |                                    |           |
| CaO                            |                                    |                                    |           |
| H <sub>2</sub> O               |                                    |                                    |           |
| K <sub>2</sub> O               |                                    |                                    |           |
| AlF <sub>3</sub>               |                                    |                                    |           |
| O <sub>2</sub>                 |                                    |                                    |           |
| CuCl <sub>2</sub>              |                                    |                                    |           |
| NO <sub>2</sub>                |                                    |                                    |           |
| CO <sub>2</sub>                |                                    |                                    |           |
| HF                             |                                    |                                    |           |
| Rb <sub>2</sub> S              |                                    |                                    |           |
| NBr <sub>3</sub>               |                                    |                                    |           |
| Fe <sub>2</sub> O <sub>3</sub> |                                    |                                    |           |
| CCl <sub>4</sub>               |                                    |                                    |           |