**Ionic Bonding Draw and Name**

**Name to Formula (some WITH, some WITHOUT transition metals)**

1. Sodium sulfide

Is there a transition metal?\_\_\_\_\_\_\_\_ Write the Formula:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Cobalt (I) phosphide

Is there a transition metal?\_\_\_\_\_\_\_\_ Write the Formula:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Magnesium chloride

Is there a transition metal?\_\_\_\_\_\_\_\_ Write the Formula:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Zinc (III) oxide

Is there a transition metal?\_\_\_\_\_\_\_\_ Write the Formula:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Aluminum oxide

Is there a transition metal?\_\_\_\_\_\_\_\_ Write the Formula:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Formula to Name (some WITH, some WITHOUT transition metals)**

1. MgBr2

Is there a transition metal?\_\_\_\_\_\_\_\_ Write the Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Ti2O3

Is there a transition metal?\_\_\_\_\_\_\_\_ Write the Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. AuO

Is there a transition metal?\_\_\_\_\_\_\_\_ Write the Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. MnBr3

Is there a transition metal?\_\_\_\_\_\_\_\_ Write the Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. CaCl2

Is there a transition metal?\_\_\_\_\_\_\_\_ Write the Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Symbols of the two elements **circle the metal** | Oxidation numbers of each element | Chemical Formula | Name of Compound | Ionic Bond Diagram |
| 1 | Ca Cl | +2 -1 | CaCl2 | Calcium chloride |  |
| 2 | Na Br |  |  |  |  |
| 3 | Mg Cl |  |  |  |  |
| 4 | Mg O |  |  |  |  |
| 5 | Co S |  | Co2S |  |  |
| 6 | Ag Br |  |  | Silver (II) Bromide |  |
| 7 | K S |  |  |  |  |
| 8 | Ni Cl |  | NiCl3 |  |  |
| 9 | Li P |  |  |  |  |
| 10 | Al Cl |  |  |  |  |
| 11 | Fe O |  |  | Iron(III) Oxide |  |
| 12 | Na P |  |  |  |  |