

# Types of Chemical Bonds Worksheet

Classify the following compounds as having ionic bonds (metal bonding with a non-metal), covalent bonds (non-metal bonding with another non-metal), or both (metal bonding with a covalent ion).

1.  $\text{CaO}$  → \_\_\_\_\_

2.  $\text{NO}_2$  → \_\_\_\_\_

3.  $\text{CO}_2$  → \_\_\_\_\_

4.  $\text{KI}$  → \_\_\_\_\_

5.  $\text{NaOH}$  → \_\_\_\_\_

6.  $\text{K}_2\text{O}$  → \_\_\_\_\_

7.  $\text{N}_2\text{O}_3$  → \_\_\_\_\_

8.  $\text{CH}_4$  → \_\_\_\_\_

9.  $\text{BaSO}_4$  → \_\_\_\_\_

10.  $\text{AlPO}_4$  → \_\_\_\_\_

11.  $\text{H}_2\text{O}$  → \_\_\_\_\_

12.  $\text{SO}_3$  → \_\_\_\_\_

13.  $\text{NH}_4\text{Cl}$  → \_\_\_\_\_

14.  $\text{MgO}$  → \_\_\_\_\_

15.  $\text{S}_8$  → \_\_\_\_\_

16.  $\text{CaCl}_2$  → \_\_\_\_\_

17.  $\text{LiBr}$  → \_\_\_\_\_

18.  $\text{O}_2$  → \_\_\_\_\_

# Types of Chemical Bonds Worksheet

## Answers

1. CaO → Ionic

2. NO<sub>2</sub> → Covalent

3. CO<sub>2</sub> → Covalent

4. KI → Ionic

5. NaOH → Both

6. K<sub>2</sub>O → Ionic

7. N<sub>2</sub>O<sub>3</sub> → Covalent

8. CH<sub>4</sub> → Covalent

9. BaSO<sub>4</sub> → Both

10. AlPO<sub>4</sub> → Both

11. H<sub>2</sub>O → Covalent

12. SO<sub>3</sub> → Covalent

13. NH<sub>4</sub>Cl → Both

14. MgO → Ionic

15. S<sub>8</sub> → Covalent

16. CaCl<sub>2</sub> → Ionic

17. LiBr → Ionic

18. O<sub>2</sub> → Covalent