

## TYPES OF CHEMICAL BONDS

Name \_\_\_\_\_

Classify the following compounds as ionic (metal + nonmetal), covalent (nonmetal + nonmetal) or both (compound containing a polyatomic ion).

- |                             |       |                            |       |
|-----------------------------|-------|----------------------------|-------|
| 1. $\text{CaCl}_2$          | _____ | 11. $\text{MgO}$           | _____ |
| 2. $\text{CO}_2$            | _____ | 12. $\text{NH}_4\text{Cl}$ | _____ |
| 3. $\text{H}_2\text{O}$     | _____ | 13. $\text{HCl}$           | _____ |
| 4. $\text{BaSO}_4$          | _____ | 14. $\text{KI}$            | _____ |
| 5. $\text{K}_2\text{O}$     | _____ | 15. $\text{NaOH}$          | _____ |
| 6. $\text{NaF}$             | _____ | 16. $\text{NO}_2$          | _____ |
| 7. $\text{Na}_2\text{CO}_3$ | _____ | 17. $\text{AlPO}_4$        | _____ |
| 8. $\text{CH}_4$            | _____ | 18. $\text{FeCl}_3$        | _____ |
| 9. $\text{SO}_3$            | _____ | 19. $\text{P}_2\text{O}_5$ | _____ |
| 10. $\text{LiBr}$           | _____ | 20. $\text{N}_2\text{O}_3$ | _____ |