

Name _____

Block _____

Types of Chemical Bonds

Classify the following as **IONIC** (metal + nonmetal), **COVALENT** (nonmetal + nonmetal), or **BOTH** (metal + polyatomic ion). Metals are located on the left side of the zigzag line on the periodic table. Nonmetals are located on the right side of the zigzag line. Hydrogen is a nonmetal, even though it is located on the left side of the periodic table. Polyatomic ions contain covalently bonded nonmetal atoms that possess an ionic charge.

1. CaCl_2 _____11. MgO _____2. CO_2 _____12. NH_4Cl _____3. H_2O _____13. HCl _____4. BaSO_4 _____14. KI _____5. K_2O _____15. NaOH _____6. NaF _____16. NO_2 _____7. NaCO_3 _____17. AlPO_4 _____8. CH_4 _____18. FeCl_3 _____9. SO_3 _____19. P_2O_5 _____10. LiBr _____20. N_2O_3 _____