

Name: _____

Review: Bonding

1. What happens to the bonding electrons in each type of bond:
 - a. ionic bond
 - b. metallic bond
 - c. covalent bond
2. How does electronegativity affect the tendency for atoms to form an ionic bond or a covalent bond?
3. Fill in the table of properties for ionic, metallic, and covalent compounds.

Property	Ionic	Metallic	Covalent
Hardness			
Brittleness			
Melting & Boiling Point			
Conductivity			

Formulas of Ionic Compounds

1. K + S
2. Fe(III) + S
3. Ca + O
4. Sr + PO₄³⁻
5. Na + SO₄²⁻
6. NH₄⁺ + PO₄³⁻
7. Pb(IV) + O
8. Ca + P

Lewis Structures of Covalent Compounds

1. CHCl₃
2. ClO₃⁻
3. NH₃
4. H₂CO
5. CO
6. BH₃
7. BeCl₂
8. ICl₃
9. SF₄
10. resonance
CO₃²⁻