

Intermolecular (Interparticle) Forces:

Name: _____

1. For the following substances, identify the type of substance as either *Ionic, Polar Covalent, Non-Polar Covalent, Metallic, or Networks*.
2. Determine the interparticle force for each type of substance: *H-bonding (H-B), dipole-dipole (D-D), ion-dipole (I-D), London Dispersion Force (LDF), Network Covalent (NC), or Metallic (M)*.
3. Rank the relative melting point for each substance from *highest (1) to lowest (9)*.
4. Rank the relative boiling point for each substance from *highest (1) to lowest (9)*.
5. Determine the conductivity for each substance: Choose from *High, NONE, In Solution/Liquid*
6. Determine the solubility for each substance: Choose from *YES, NO, or Slightly*

	Substance	Type of Substance	Strongest Interparticle Force	Relative Melting Point	Relative Boiling Point	Conductivity	Solubility
1)	NH ₃	Polar Covalent	H-Bonding (H-B)				
2)	CH ₂ O						
3)	K ₃ PO ₄						
4)	CCl ₄						
5)	Zn						
6)	C _(diamond)						
7)	LiCl						
8)	C ₂ H ₆						
9)	BF ₃						

