

## Intermolecular Forces of Attraction Questions

1. How are intramolecular and intermolecular forces of attraction different?
2. What impact does non-directional bonding have on aggregate structure?
3. Why do ionic solids continuously grow into larger and larger crystals?
4. How does the number of electrons present in an atom or molecule affect LDFs?
5. How does the size of a molecule affect LDFs?
6. Explain why melting point of elements **INCREASES** moving down a family.
7. How can a non-polar molecule possess a dipole?
8. Explain why  $\text{CCl}_4$  has a higher boiling point than  $\text{CHCl}_3$  ( $76.8^\circ\text{C}$  versus  $61.2^\circ\text{C}$ ).
9. Explain why frozen pipes burst.
10. Explain the adjacent graph depicting the boiling points of several molecules.
11. Explain why the boiling point of water substantially higher than the boiling point of HF.

