

Section 13.2 Forces of Attraction

In your textbook, read about forces of attraction.

Answer the following questions.

1. Ionic, metallic, and covalent bonds are examples of what type of forces? _____
2. Dispersion forces, dipole–dipole forces, and hydrogen bonds are examples of what type of forces? _____

3. Describe dispersion forces.

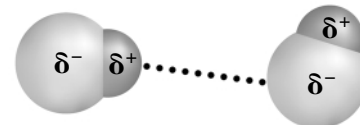
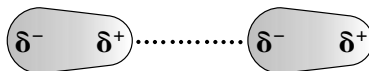
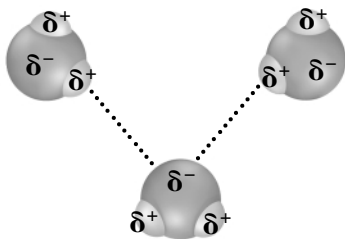
4. Dispersion forces are greatest between what type of molecules?

5. Describe a permanent dipole.

6. Describe dipole–dipole forces.

7. Describe a hydrogen bond.

8. Identify each of the diagrams below as illustrating dipole–dipole forces, dispersion forces, or hydrogen bonds.



- a. _____ b. _____ c. _____

9. Rank dipole–dipole forces, dispersion forces, and hydrogen bonds in order of increasing strength.
