

Learning Target: I can describe and explain the differences between intramolecular and intermolecular forces.



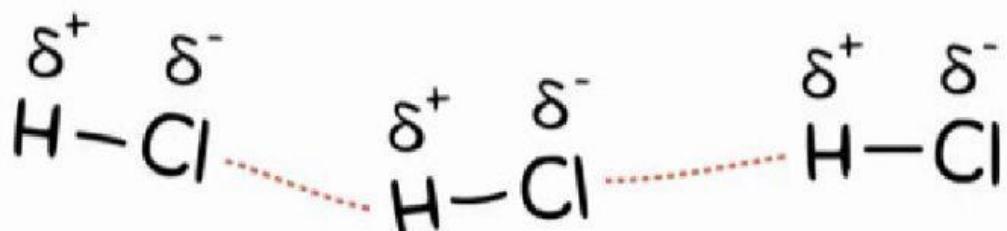
### Intermolecular vs. Intramolecular Forces Video Notes

1. Why are electrons attracted to the nucleus of an atom? \_\_\_\_\_
2. Why are cations and anions attracted to each other? \_\_\_\_\_

#### Intermolecular vs. Intramolecular Forces:

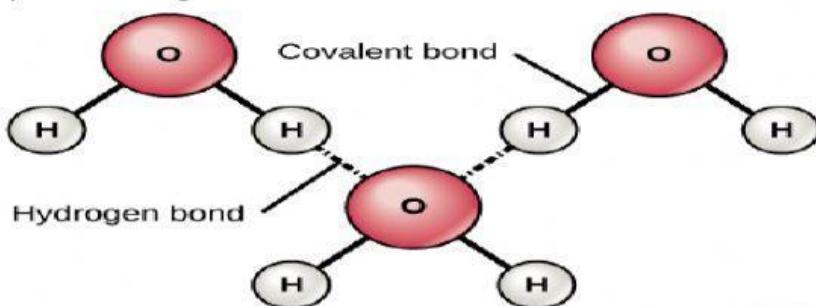
- Intramolecular forces are attractive forces that hold \_\_\_\_\_ (or substance). These are \_\_\_\_\_ and usually called \_\_\_\_\_ bonds.
- Intermolecular forces are \_\_\_\_\_ attractive forces that exist between \_\_\_\_\_

3. Label the parts of the diagram below where the intramolecular and intermolecular forces are.



Learning Target: I can describe and explain the differences between intramolecular and intermolecular forces.

4. Label the parts of the diagram below where the intramolecular and intermolecular forces are.



5. What are some of the strongest intramolecular forces in order of strength?

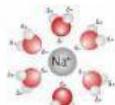
a. \_\_\_\_\_ bonds = attraction between \_\_\_\_\_

b. \_\_\_\_\_ bonds = attraction between \_\_\_\_\_

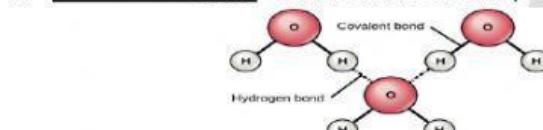
c. \_\_\_\_\_ Bonds = attraction between \_\_\_\_\_

6. What are some of the strongest intermolecular forces in order of strength?

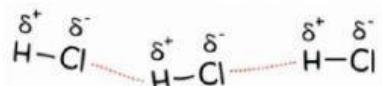
a. \_\_\_\_\_ force = attraction between an \_\_\_\_\_ molecule



b. \_\_\_\_\_ bond = attraction between special type of \_\_\_\_\_

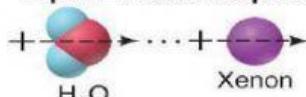


c. \_\_\_\_\_ Forces = attraction between \_\_\_\_\_



d. \_\_\_\_\_ Dipole = attraction between \_\_\_\_\_ molecules.

Dipole-induced dipole



e. \_\_\_\_\_ Forces = attraction between \_\_\_\_\_

**Review:**

- Intramolecular forces are attractive forces that exist between atoms within \_\_\_\_\_
- Intermolecular forces are attractive forces that exist between \_\_\_\_\_
- The common types of intramolecular forces, known as chemical bonds are \_\_\_\_\_
- The common types of intermolecular forces, ranked roughly by strength, are \_\_\_\_\_