

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

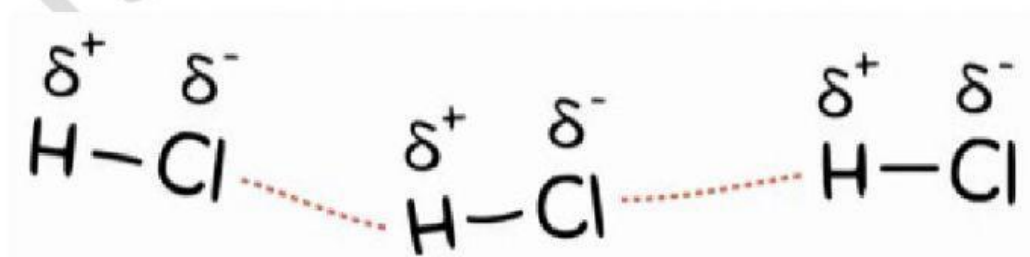


Intermolecular vs. Intramolecular Forces Video Notes

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:

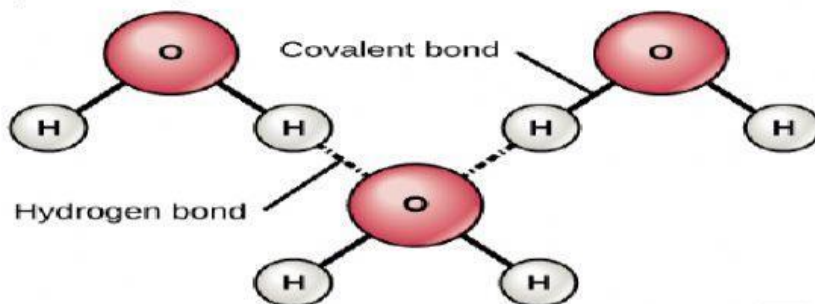
- Intramolecular forces are attractive forces that hold \_\_\_\_\_ (or substance). These are \_\_\_\_\_ and usually called \_\_\_\_\_ bonds.
  - Intermolecular forces are \_\_\_\_\_ attractive forces that exist between \_\_\_\_\_
3. Label the parts of the diagram below where the intramolecular and intermolecular forces are.



Created By: Chivas & Jordan Spivey

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

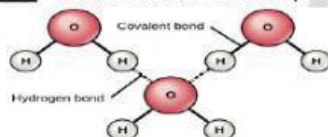
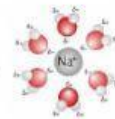


5. What are some of the strongest intramolecular forces in order of strength?

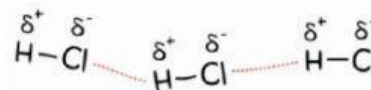
- a. \_\_\_\_\_ bonds = attraction between \_\_\_\_\_
- b. \_\_\_\_\_ bonds = attraction between \_\_\_\_\_
- c. \_\_\_\_\_ Bonds = attraction between \_\_\_\_\_

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 \_\_\_\_\_

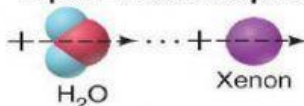


- c. \_\_\_\_\_ Forces = attraction between \_\_\_\_\_



- 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 \_\_\_\_\_