Name _____

The Dance of Intermolecular Forces: Solids, Liquids, and Gases

Multiple Choice Questions

1. Which state of matter has the strongest intermolecular forces?

A. Gases

B. Liquids

C. Solids

D. None of the above

2. What type of intermolecular force is responsible for the unique properties of water in its liquid state?

A. London Dispersion force

B. Hydrogen Bonding force

C. Van der Waals force

D. Ionic force

3. In which state of matter do molecules move independently and freely, colliding with each other and the container walls?

A. Solids

B. Liquids

C. Gases

D. None of the above

4. What happens to intermolecular forces as matter transitions from a solid to a liquid?

A. They strengthen

B. They weaken

C. They remain the same

D. They disappear

5. Cooling a gas causes its molecules to _____.

A. move faster

B. come closer together

C. turn into a liquid

D. expand to fill the container