

Name _____

The Fantastic Journey of Particle Motion: Solids, Liquids, and Gases

Multiple Choice Questions

1. In which state of matter do particles move freely and independently at high speeds?

- A. Solids
- B. Liquids
- C. Gases
- D. None of the above

2. What causes the particles in a solid to vibrate in place?

- A. High temperature
- B. Low temperature
- C. Kinetic energy
- D. Strong intermolecular forces

3. Which state of matter has a definite shape but not a definite volume?

- A. Solids
- B. Liquids
- C. Gases
- D. None of the above

4. How do the motion and arrangement of particles differ in liquids compared to solids?

- A. Liquids have less chaotic motion and stronger intermolecular forces.
- B. Solids have more energy and move independently.
- C. Liquids have more chaotic motion and can flow.
- D. Solids have a definite volume but not a definite shape.

5. What happens when you add heat to a gas?

- A. It condenses into a liquid.
- B. It freezes into a solid.
- C. Its particles lose energy and slow down.
- D. Its particles gain energy and move faster.

