

Name _____

Molecular Magic: Solids, Liquids, and Gases

Short Answer Key

1. In a solid, molecules are tightly packed and maintain fixed positions, whereas in a liquid, molecules are close together but can slide past each other.
2. Water can exist as ice (solid), liquid water, and water vapor (gas).
3. When a liquid is heated, its molecules gain energy and move faster, increasing the distance between them.
4. A gas does not have a definite shape or volume because its molecules are spread out and constantly in motion, allowing them to fill any container.
5. Cooling a gas causes its molecules to lose energy and slow down, leading to condensation into a liquid.

