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PARTICLE THEORY AND STATES OF MATTER

Particle theory explains the properties of matter in terms of the arrangement of particles. It also explains the changes of state and the energy changes that occur during these changes.

States of Matter Matter can exist in three states: solid, liquid, and gas. The particles in each state are arranged differently, and this affects the properties of the matter.

Solid In a solid, the particles are packed closely together in a regular arrangement. They vibrate in fixed positions but do not move from their places. Solids have a fixed shape and volume.

Liquid In a liquid, the particles are packed closely together but are not in a regular arrangement. They can move past each other, but they are still close together. Liquids have a fixed volume but no fixed shape.

Gas In a gas, the particles are far apart and move rapidly in all directions. They have no fixed shape or volume.

Changes of State Changes of state occur when the arrangement of particles changes. This happens when energy is added or removed from the matter.

Melting Melting is the change from a solid to a liquid. It occurs when the particles in a solid gain enough energy to break the fixed positions and move past each other.

Boiling Boiling is the change from a liquid to a gas. It occurs when the particles in a liquid gain enough energy to break the close packing and move far apart.

Condensation Condensation is the change from a gas to a liquid. It occurs when the particles in a gas lose enough energy to come back together and form a liquid.

Freezing Freezing is the change from a liquid to a solid. It occurs when the particles in a liquid lose enough energy to form a regular arrangement.



Particle Theory and States of Matter
Guided Reading

Guided Reading Cycling Of Matter Answers

AW Chickering



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