

Solids, Liquids, and Gases ▪ Review and Reinforce

Changes of State

Understanding Main Ideas

Complete the table by writing whether there is an gain or loss of thermal energy for each change of state and whether the movement of particles increases or decreases.

Change of State	Thermal Energy	Movement of Particles
1. Melting	gain	increases
2. Freezing	loss	decreases
3. Vaporization	gain	increases
4. Condensation	loss	decreases
5. Sublimation	gain	increases

Building Vocabulary

From the list below, choose the term that best completes each sentence.

- | | | |
|---------------|----------|--------------|
| melting point | melting | sublimation |
| boiling point | freezing | vaporization |
| evaporation | boiling | condensation |

- The temperature at which a liquid boils is called its boiling point.
- The change in state from gas to liquid is called condensation.
- The change in state from liquid to gas is called vaporization (Evaporation).
- Gas bubbles forming throughout the liquid is called boiling.
- Liquid changing to gas only at the surface is called evaporation or vaporization.
- The change in state from solid to liquid is called melting.
- The change in state from liquid to solid is called freezing.
- In most pure substances, melting occurs at a specific temperature, called the melting point.
- In sublimation, particles pass directly from solid to gas.