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Solid - Liquid - Gas Quiz: Solutions

1. Name the transition:

Solid → Liquid	Melting
Liquid → Solid	Freezing
Liquid → Gas	Vaporization
Gas → Liquid	Condensation
Gas → Solid	Deposition
Solid → Gas	Sublimation

2. Define:

Melting Point	Temperature of the Solid → Liquid phase change; dependent on pressure
Boiling Point	Temperature of the Liquid → Gas phase change; dependent on pressure
Critical Point	Occurs at the critical temperature and the critical pressure; liquid and gas phases are no longer distinguishable; a substance is called a supercritical fluid at temperatures and pressures above this point
Triple Point	The temperature and pressure in which the solid, liquid, and gas phases coexist; all phase changes are viable
Latent Heat of Fusion	The energy required for a phase change from the solid to the liquid state; occurs at the melting point
Latent Heat of Vaporization	The energy required for a phase change from the liquid to the gas state; occurs at the boiling point