

THEORY

When a substance is heated, it may undergo a change in its physical state. This change is called a phase transition. The temperature at which a substance changes from one phase to another is called its melting point or boiling point. For example, water changes from a solid (ice) to a liquid (water) at 0°C and from a liquid to a gas (steam) at 100°C. The amount of heat required to change the phase of a substance is called its latent heat.

Phase Transition	Temperature (°C)	Latent Heat (J/kg)
Melting (Ice to Water)	0	336,000
Boiling (Water to Steam)	100	2,260,000

EXPERIMENT

