

The **SPECIFIC HEAT OF ICE** is the heat used to make the molecules in the ice crystal move faster. They start vibrating more and break loose of the organized structure. This causes the temperature to increase.

What's Happening?

Speeding up Solid  
Temperature goes up

The **LATENT HEAT OF FUSION** is the energy used to break the attractions between the ice molecules. This spreads them out. All the energy is going to the molecules being spread out, they do not move faster, therefore, the temperature does not go up.

What's Happening?

Spreading out molecules  
Solid → Liquid

The **SPECIFIC HEAT OF WATER** is the heat used to make the water molecules move faster in liquid form. This causes the temperature to increase.

What's Happening?

Speeding up Liquid  
Temperature goes up

The **LATENT HEAT OF VAPORIZATION** is the energy used to break the attraction between the liquid molecules. This spreads them out. All the energy is going to the molecules being spread out, they do not move faster, therefore, the temperature does not go up.

What's Happening?

Spreading out molecules  
Liquid → Gas

The **SPECIFIC HEAT OF STEAM** is the heat used to make the steam molecules move faster in the gas form. This causes the temperature to increase.

What's Happening?

Speeding up gas  
Temperature goes up

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