
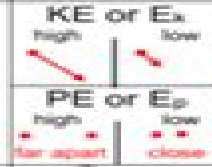





Study Buddy: Energy and Phase Changes

Terms	Description	Picture	Symbol/Unit
Heat	Amount of thermal energy transferred from one system to another. <small>http://openstax.org/r/media_img/videoFile/Heat1_1st.png http://www.ck12.org/ck12partsv/0750/c/2F00ce-culter-mid.png</small>		Q/ Joules (J) or calorie (cal)
Total Internal Energy	Describes the total amount of energy in a system. Equals the sum of kinetic and potential energies. Kinetic Energy: due to motion of particles Potential Energy: due to relative position of particles		IE/ Joules (J) or calorie (cal)
Endothermic Process	System absorbs energy from surroundings Phase changes: melting, vaporizing, subliming <small>http://openstax.org/r/condensing-pot-vaporizing-page-2010</small>		+Q for system
Exothermic Process	System releases heat to surroundings Phase changes: freezing, condensing, depositing		-Q for system
Vapor Pressure	Pressure exerted by the vapor particles over a liquid or solid substance at equilibrium.		<small>http://www.ck12.org/ck12partsv/0750/c/2F00ce-culter-mid.png</small>

How does thermal energy transfer cause phase changes?


As a solid or liquid is heated, the thermal energy is used to increase the kinetic and potential energy of the particles (particles moving faster and farther apart). When a liquid or gas is cooled, the thermal energy transferred to the surroundings reduced the kinetic and potential energies of the particles.



Describe solid particles' positions and motion:

- Moving slowly
- Close together

Solid water



Describe liquid particles' positions and motion:

- Moving faster
- Farther apart

Liquid water



Describe gaseous particles' positions and motion:

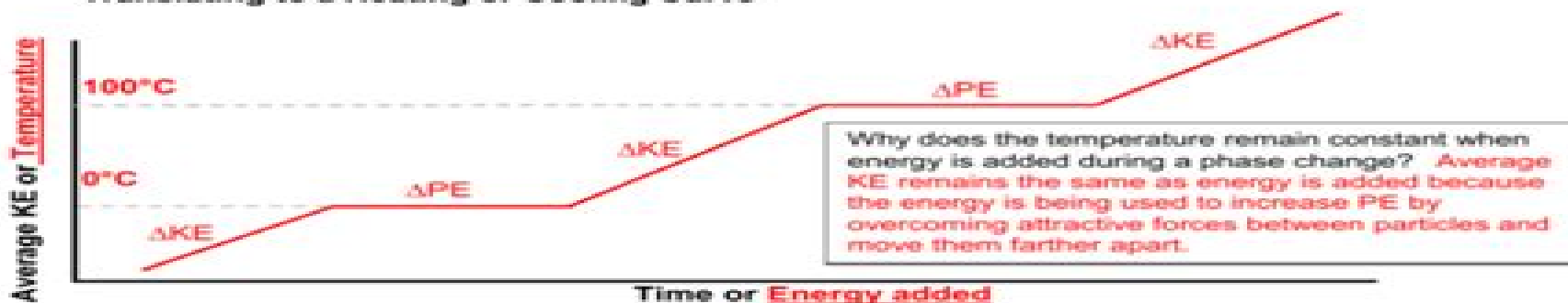
- Moving quickly
- Far apart

Water vapor

Melting = 0 °C

Boiling = 100 °C

Translating to a Heating or Cooling Curve



Label where PE and KE are changing on the heating curve above.

Phase Changes Study Guide

Kim Heldman, William Heldman

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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