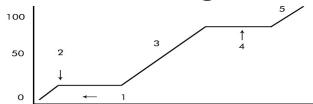
Name:	Date:

Phase Change Key



- When a given quantity of water is heated at a constant rate, the phase change from liquid to gas takes longer than the phase change from solid to liquid because
 - a. The heat of vaporization is greater than the heat of fusion
- 2) What is the melting point of this substance? 0 °C
- 3) What is happening to the average kinetic energy of the molecules in the sample during section 2? remains constant
- 4) At what temperature would this sample finish boiling? 100 °C
- 5) When this substance is melting, the temperature of the ice-water mixture remains constant because:
 - d. Heat energy is being converted to kinetic energy
- 6) The temperature at which a substance in the liquid state freezes is the same as the temperature at which the substance
 - a. Melts
- 7) As a substance goes through section (2), what happens to the distance between the particles? increases
- 8) What is the name of the process happening during section (4)? boiling (vaporization)
- 9) Is this curve showing an endothermic or an exothermic process?
- 10) 34°C is equal to 307 K.