

## Chemguide – questions

### SIMPLE KINETIC THEORY

1. Explain the following:
  - a) Most solids expand *slightly* when they melt.
  - b) Draw simple diagrams to show the arrangement of particles in a liquid and a gas.
  - c) Liquids freeze when they are cooled; some liquids freeze at much higher temperatures than others.
2. Define
  - a) enthalpy of fusion;
  - b) enthalpy of vaporisation.
3.
  - a) Explain the difference between evaporation and boiling.
  - b) Explain what is meant by saturated vapour pressure.
  - c) The saturated vapour pressure of water at 25°C is 3.17 kPa; at 50°C it is 12.35 kPa. Why does saturated vapour pressure increase with temperature? (This question isn't directly covered by the page you have just read, but you should be able to work it out.)
  - d) Explain what is meant by sublimation.