

9. Use kinetic theory to explain the differences between the particles in a gas and those in a liquid.
10. Use kinetic theory to explain the difference between evaporation and boiling of a liquid.
11. Use Figure 10.11 to determine the boiling point of each liquid:
- a. ethanoic acid at 200 mm Hg BP = _____
 - b. chloroform at 600 mm Hg BP = _____
 - c. ethanol at 400 mm Hg BP = _____
12. Explain why the boiling point of a liquid varies with atmospheric pressure.
13. Why does evaporation lower the temperature of a liquid?
32. Explain why liquids and gases differ
- a. in physical state.
 - b. in compressibility.
35. Explain why increasing the temperature of a liquid increases its rate of evaporation.
38. Distinguish between the boiling point and the normal boiling point of a liquid.
39. Use the graph (pg. 289) to answer each question:
- a. What is the vapor pressure of water at 40° C? _____
 - b. At what temperature is the vapor pressure of water 600 mm Hg? _____
 - c. What is the significance of the vapor pressure of water at 100° C?