

14. Explain the nature of solids and tell why they differ from liquids. Refer to the organization of particles in your answer.
15. How does the crystal lattice of a solid differ from its unit cell?
16. How do allotropes of an element differ?
17. What general information can you get from a phase diagram for water at various temperatures and pressure?
18. Describe the process of sublimation. What is a practical use of this process?
19. Explain triple point.
43. Name at least one physical property that would permit you to distinguish a molecular solid from an ionic solid.
44. Describe what happens when a solid is heated to its melting point.
45. Why do molecular solids usually have lower melting points than ionic solids?
49. Mount McKinley (6194 m) in Alaska is the tallest peak in North America. The atmospheric pressure at its peak is 330 mm Hg. Find the boiling point of water there. (Use Figure 10.11)