

Chapter 13 Study Guide

Prior to lecture:

1. Read Ch. 13 in the textbook
2. Convert the following from °C to °F and K.
 - a. 30 °C
 - b. -22 °C
 - c. 100 °C
3. On a sheet of paper, complete the “Check Your understanding” on pages 439, 445, 449, and 461.
4. Read the “Problem-Solving Strategies: The Ideal Gas Law” on page 451. Rewrite the procedure in your own words.
5. Answer conceptual questions 1, 4, 5, 10, and 14 on pages 468 of the text.
6. Define the following terms:
 - a. Avogadro’s number
 - b. Boltzmann Constant
 - c. Dalton’s law
 - d. Fahrenheit scale
 - e. Kelvin scale
 - f. Critical point
 - g. Absolute zero
 - h. Phase diagram
 - i. Sublimation
 - j. Dew point
 - k. Vapor Pressure
 - l. Critical pressure
 - m. Triple Point

After lecture:

1. Review notes from lecture
2. Redo all example problems from lecture
3. Reread text
4. Work through examples 13.3, 13.4, 13.6, 13.9, and 13.12 in the text.
5. Redo all recitation worksheet problems
6. Complete homework for chapter 13
7. For extra practice, try the following problems from chapter 13 of the textbook: 1, 3, 9, 13, 21, 22, 25, 31, 41, 46, 51, 55, 59