

HIP 03

COMMENTS:

- Problem 1 is a list of suggested Student Workbook Volume 1 problems to practice in your spare time. You do not need to turn these in, they will not be graded. I recommend working through these before attempting problem 2, or if you get stuck while working on problem 2.
 - Problem 2 will be graded based off of the HIP rubric.
- (1) CH 11: 14, 15, 16, 17, 18, 19, 20,
CH 12: 11, 12, 13, 14, 15, 16, 17, 35, 36, 37, 38
- (2) Use chapter 11.7 and 11.8 of the textbook to answer the following questions.
- a. What is the difference between a reversible and irreversible process? Give one example of each.
 - b. What is entropy? What happens to entropy as two systems interact?
 - c. What is the second law of thermodynamics?
 - d. Why is converting thermal energy into other forms of energy never 100% efficient? (Why is a heat engine never 100% efficient?)