

Chapter 5 Study Guide

Prior to lecture:

1. Read Ch. 5 in the textbook
2. Define the following terms:
 - a. Friction
 - b. Kinetic friction
 - c. Static friction
 - d. Hooke's law
 - e. Drag force
 - f. Deformation
 - g. Stress
 - h. Strain
 - i. Tensile strength
 - j. Shear deformation
3. Answer conceptual questions 1 and 3 on page 186 of the text.
4. Work through example problem 5.1 on page 170 of the text.
5. On a sheet of paper, complete the "Take-Home Experiment" on page 170. Answer all questions.
6. On a sheet of paper, complete the "Galileo's Experiment" on page 177 and "Stretch Yourself a Little" on page 178.
7. Answer conceptual questions 8, 12, and 14 on page 187 of the text.

After lecture:

1. Review notes from lecture
2. Redo all example problems from lecture
3. Reread text
4. Answer conceptual questions 4, 6, and 7 on pages 186 of the text.
5. Work through example problems 5.2, 5.4, and 5.5 of the text.
6. Answer conceptual questions 9, 10, 13, and 16 on pages 187 of the text.
7. Redo all recitation worksheet problems
8. Complete homework for chapter 5
9. For extra practice, try the following problems from chapter 5 of the textbook: 2, 5, 6, 7, 13, 17, 18, 23, 27, 28, 30, 33, 39, 41