

Chapter 3 Study Guide

Prior to lecture:

1. Read Sections 3.1-3.6 and 3.8 in the textbook
2. Define the following terms:
 - a. System
 - b. Force
 - c. Friction
 - d. Inertia
 - e. Inertial frame of reference
 - f. Dynamics
 - g. Normal Force
 - h. Weight
 - i. Tension
3. Using two rubber bands, small household items, a ruler and bathroom scale try the take-home experiments on page 64 and 68 of the text.
4. Complete the “Check your Understanding” problem on page 65.
5. Work through examples 3.1, 3.2 and 3.6 of the text.
6. On a sheet of paper, summarize the “Common Misconceptions” on page 75.
7. Answer conceptual questions 2, 3 and 5 on page 96 of the text.

After lecture:

1. Review notes from lecture
2. Redo all example problems from lecture
3. Reread text
4. Work through example problem 3.3 and 3.4 in the text.
5. Answer conceptual questions 4, 6, 9, 17, 24 and 30 on pages 97 of the text.
6. Complete the worksheet problems.
7. For extra practice, try the following problems from chapter 3 of the textbook: 5, 6, 8, 11, 15, 19, 39, 41