

## Chapter 2 Study Guide

Prior to lecture:

1. Read Ch. 2 in textbook
2. Define the following terms:
  - a. Kinematics
  - b. Model
  - c. Origin of a coordinate system
  - d. Slope of a line
  - e. Vector
  - f. Scalar
  - g. Free-fall
  - h. Distance
  - i. Displacement
  - j. Position
  - k. Instantaneous variable
  - l. Speed
  - m. Velocity
  - n. Acceleration
  - o. Deceleration
  - p. Acceleration due to gravity
3. Complete the “Check your Understanding” problems on pages 38, 39, and 42.
4. Work through example problem 2.1 on page 45 of the text.
5. Complete the “Check your Understanding” problems on pages 60 and 69.
6. Answer conceptual questions 2, 6, 12, 13, and 14 on pages 78-79 of the text.

After lecture:

1. Review notes from lecture
2. Redo all example problems from lecture
3. Reread text
4. Answer conceptual questions 1, 4, and 9 on pages 78-79 of the text.
5. Read the “Misconception Alert” on page 44. In your own words explain what it means to have a negative acceleration vs. deceleration.
6. Work through example problem 2.6, 2.7, 2.10, 2.13, and 2.15 in the text.
7. Answer conceptual questions 16, 20, and 25 on pages 79 of the text.
8. Redo all problems on the recitation worksheet
9. Complete the homework for chapter 2 (available on Blazeview).
10. For extra practice, try the following problems from chapter 2 of the textbook: 5, 12, 17, 21, 25, 26, 35, 37, 38, 40, 43, 44, 46, 49, 58, 59, 64