Unit II Objectives

What you should know when all is said and done

1. You should be able to determine the **average velocity** of an object in two ways:
   a. determining the **slope** of an **x** vs **t** graph.
   b. using the equation $v = \frac{\Delta x}{\Delta t}$

2. You should be able to determine the **displacement** of an object in two ways:
   a. finding the area under a **v** vs **t** graph.
   b. using the equation $\Delta x = vt$

3. Given an **x** vs **t** graph, you should be able to:
   a. describe the motion of the object (starting position, direction of motion, velocity)
   b. draw the corresponding **v** vs **t** graph
   c. draw a motion map for the object.
   d. determine the average velocity of the object (slope).
   e. write the mathematical model which describes the motion.

4. Given a **v** vs **t** graph, you should be able to:
   a. describe the motion of the object (direction of motion, how fast)
   b. draw the corresponding **x** vs **t** graph
   c. determine the displacement of the object (area under curve).
   d. draw a motion map for the object.
   e. write a mathematical model to describe the motion.

Additional Study Hints:

Look over all the old worksheets and quizzes.
Make up a **x** vs **t** graph and see if you can draw the **v** vs **t** graph.
Get together with your lab partners and review.