Name: _____

Physics 200

Prelab exercise 2

Directions: Read over Lab 2 and then answer the following questions about the procedures.

1. *Prediction:* In Activity 1-1, in what main way do you expect that your position-time graph will differ from the position-time graphs you observed in Lab 1, where you were moving with a constant velocity?

2. In Activity 1-2, what do you do to the fan cart to make it accelerate at a greater rate?

3. In Activity 2-1, in order to determine the acceleration of the cart, you will use at least two different methods.

a) In one method, you will use the Statistics function to find the average. Which graph will you use for this?

b) In another method, you will obtain a best-fit line and find the slope of a graph. Which graph will you use for this?

4. *Prediction:* What do you predict the sign (direction) of acceleration will be for the experiment in Activity 3-1: Speeding Up Toward the Motion Detector?

5. In Investigation 4, what will you use to obtain data on the motion of a freely-falling object?