Name:			
Date			



Conceptual Physics Reading Quiz 3

Due Date: Feb. 23 (before class)

This reading assignment covers the material that we will discuss and work on next week. Our class activities will **assume** that you have read the assigned material, therefore it is **very important** that you do so to get the most out of the class!

1. Light and Matter, Chapter 2 (Section 3)

In this section, pay special attention to how velocity relates to position and time. In particular, it is important to be able to read a graph: What does the line represent? If I have a position versus time graph, how to I find an object position at 1 second? At 2 seconds? How do I find the time at which an object has moved by 1 m? Graphs can take on different shapes. They can be straight or curvy lines, and they can be pointed up or pointed down. What do the different shapes mean?

2. College Physics, Chapter 2 (Section 8)

This section is particularly mathy - it's OK if you don't know what all the equations mean.

This section is particularly interesting because it relates how *acceleration* connects to velocity versus time graphs, and how it effects position versus time graphs.

As part of the reading, please complete the pre-class quiz *before* coming to class. They will be collected at the very beginning.

Score: / 10 points

Que	estions from Light and Matter Chapter 2
1.	(1 point) In graphical terms, an object's velocity is interpreted as what part of a position versus time graph?
2.	(2 points) In graphical terms, a positive slope characterizes what kind of line? What does a negative slope characterize?
3.	(1 point) For a position versus time graph with a curvy line, the velocity at any given moment is found using what? (Hint: look at figures and their captions)
4.	(2 points) The standard convention for graphing has x on which axis (horizontal or upright)? What about t (horizontal or upright)?
-	estions from College Physics Chapter 2
1.	(1 point) The slope of a position versus time graph is determined how? (See equation 2.92)
2.	(1 point) If an object is accelerating at a constant rate $(a \neq 0)$ is the position versus time graph straight or curvy?
3.	(1 point) The slope of a velocity versus time graph represents what physical quantity (displacement, velocity, or acceleration)?
4.	(1 point) If an object's acceleration is changing, is the velocity versus time graph straight or curvy?