CP Physics Test #1 Review

The following topics should be reviewed from Chapter 1 and your notes. Approximately 20% of the test is from these topics.

1. The Scientific Method
2. Fact/Theory/Law
3. Galileo vs. Aristotle

The following topics should be reviewed from chapter 2, pages 10-16 and your notes. Approximately 80 % of the test is from these topics.

1. Relative Motion and rates
2. Speed (Instantaneous, average, initial, final change in)
3. Velocity vs. Speed
4. Acceleration

The following topics are not part of any chapter, but for which the student is responsible.

1. Metric System (and conversions)
2. Labs-Constant Speed and Constant Acceleration
3. Problem Solving (Make sure you know the 5 steps to problem solving)

Important Concepts

1. Motion is described relative to something
2. Speed is the rate at which distance is covered
   1. Instantaneous speed is the speed at any moment in time
   2. Average speed is the total distance covered divided by the time traveled
3. Velocity is speed together with the direction of travel
   1. Velocity is constant only when speed and direction are both constant
4. Acceleration is the rate at which the velocity is changing with respect to time
   1. An object accelerates when its speed increases, decreases and/or when the direction changes
   2. Acceleration is measured in units of speed divided by time, or distance divided by 2 units of time

\*IMPORTANT\* It is not enough to be able to repeat definitions or memorize the above concepts. You are responsible for applying the above topics to different things with respect to motion.