**Chapter 1 Test Study Guide**

* **Know the three things you need when you describe your position.**
* **Know the difference between speed and velocity.**
* **Know what constant and instantaneous speeds are, know what average speed is as well.**
* **Know how to read a distance-time graph (what a straight line going up and to the right means, a curved line, a horizontal line etc…)**
* **Know what acceleration is.**
* **Know how to read speed-time graphs (know what a graph representing increases and decreases in speed looks like, and know what an object moving at a constant speed on a speed-time graph is represented by.)**
* **Know what reference directions are (to the left, to the North, to the South etc…)**
* **Know the three ways you get a change in velocity.**
* **If there are two objects on a distance-time graph, know how to tell which one is moving faster.**
* **Know where the acceleration of an object is when the object is going around a curve.**
* **Know how an arrow can represent the speed and direction of an objects velocity.**
* **Remember with velocity, a speed and direction is needed examples include, 2 m/s to the north, 14 m/s to the west.**
* **Be able to explain how the velocity of an object could change if the speed remained constant and be able to provide an example. (race track)**
* **Know what the difference between distance and displacement are.**
* **Be able to calculate average speed given and acceleration, given the equations for both.**
* **Be able to read distance-time and speed-time graphs.**