

PLAN of THE DAY 10-10-06 (Tuesday – Day 5 - E Day)

(Mr. Menin, PSII, Room 279)

MOTION => CHANGE IN MOTION => CAUSE OF CHANGE IN MOTION

Continuing Objectives: Understanding of **average velocity** as [Total Distance] / [Total Time] or = [Total Distance] / [Total Time] = Σd 's / Σt 's = $\Delta d / \Delta t$.

Understanding of (*average*) acceleration as => ***a*** = $\Delta v / \Delta t = (v_f - v_i) / (t_f - t_i)$.

Understanding of displacement, velocity & acceleration vs. time graphs (*nine total*) for conditions of constant displacement, velocity & acceleration. Understanding for constant acceleration $V_{AVG} = [V_f + V_i] / 2$. Rearrangement of these three basic equations of motion so as to derive others.

1. Return Second UNQ.
2. Go over the fact that when item A is 10% bigger than item B – it's not the same as saying that item B is 90% of item A.
3. Ask how note takers are doing: (*Worth 5 point Coupon on each Qtr Quiz & Test – not UNQ*).
A => Kristen Olsson
B => Mike Child
D => Halsey Berryman
E => Clark Jacobsen (*revised from Sarah Collins*).
4. Rearrangement of these three basic equations of motion so as to derive:

$$\Delta d = V_i (\Delta t) + \frac{1}{2} (a)(t^2)$$

5. Commence Lab – “**Prove That You Can Accelerate**” by initiating an in-class pre-lab qualification program.