Physical Science 24-25

Assignment Sheet Chapter 1 & 2

Chapter 1: Motion

I. Screencast Chapter 1 Metric System (21:51 in length) ---------- Due Fri 4/11

II. Screencast Chapter 1 Motion (14:10 in length) Due Mon 4/14

III. Greek & Latin - All and CHI thru Ps 25-21 Wed 4/17

IV. **Worksheet Handouts ---------- Due Thur 2/18**

a. Density (pg. 13)
b. Graphing Data (pg. 14)
c. Determining Speed (pg. 15)
d. Calculating Average Speed (pg. 16)
e. Acceleration Calculations (pg. 17)

Easter Break 4/21 thru 4/25

Chapter 2: Forces

I. Screencast Chapter 2 Forces (27:03 in length) Due Tues 4/29

II. **Worksheet: ---------- Due Fri 5/2**

a. Graphing Vectors (mine)
b. Graphing Distance and Time (pg. 19)
c. Gravity & Acceleration (pg. 20)
d. Force Diagrams (pg. 22)
e. Force and Acceleration (pg. 23)
f. Motion Matching (pg. 24)

Exam on Chapter 1 & 2 ---------- Thursday 5/8

Washington DC Trip 5/10 thru 5/16

NTK Metric Units

Length = meter **Mass = gram** **Weight = Newton** **Force = Newton**
Liquid Volume = Liter **Solid Volume = cm^3** **Density = g/ml**

A_g = 9.8 m/S^2 **A_g = 32 ft/S^2**

1 Newton = $\frac{\text{Kilogram x Meter}}{\text{Second}^2}$ **Momentum = $\frac{\text{Kg Meter}}{\text{Sec}}$** **$p = M \cdot V$**

NTK Formulae

1. **Density=Mass/Volume**
2. **Speed = Distance / Time**
3. **Velocity = Distance / Time with direction**
4. **Average Speed = $\frac{\text{Total Distance}}{\text{Total Time}}$**
5. **Acceleration = $V_{final} - V_{initial}$ / Time** **Acceleration = $\triangle V$/ Time**
6. **Force = Mass x Acceleration**
7. **Momentum = Mass x Velocity**