Physics 112

Tuesday, November 10/15

http://mvhs-sherrard.weebly.com/

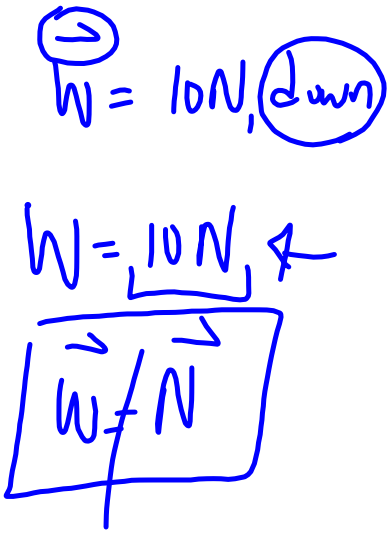
Textbook - ISBN

Grad Meeting - IS Thursday - Main Theatre - Grad Photo Presentation

1. Investigation- Atwood's Machine -> Due: Today
2. Questions re Tomorrow's Assignment?
3. Assignment: Unit 2 - S1 & S2 -> Thursday, Nov. 12/15
4. Unit 2 - Section 3 -> Introduction to Momentum
5. Momentum
6. Textbook: Page 197, #29 (C5) - HW P1 and P3 for Friday
7. Impulse
8. Textbook: Page 200, #30-32 (C5) - HW P3 for Friday

Assignment Topics: U2 - S1 & S2

1. definitions -> dynamics, force, net force
2. types of forces -> contact and non-contact
   -> examples
3. five specific forces -> **W, F_A, N, T, F_f**
4. coefficient of friction -> static and kinetic
5. FBDs -> draw and label
   -> interpret
6. static equilibrium -> $\mathbf{F}_{net} = 0$, $\mathbf{a} = 0$
   (1) horiz. surf. -> objects at rest
   (2) hill -> objects moving with constant velocity
   -> C4 Problems
7. inertia and mass
8. Newton's First Law of Motion -> Law of Inertia (C4)
9. Newton's Second Law of Motion -> Law of Force, Mass and Acceleration
   (1) kinematics $F_{net} = ma$ -> accelerating objects
   -> C5 Problems (3 Possibilities)
   (2) individual forces
   (3) Atwood's
   -> Atwood's Machine Problems
10. Newton's Third Law of Motion -> Law of Action and Reaction
    -> action and reaction forces



$W = mg$. $F_A = F$.
$F_f = \mu N$. $N = W$.

Physics 122

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Tuesday, November 9/15

1. Experiment 9.1 - Conservation of Momentum -> Due: Today
2. Assignment: U1-S4
3. Remembrance Day Ceremony -> 10:10

Science 10

Tuesday, November 10/15

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1. Activity - Speed of a Tumble Buggy - Continue
2. Average Speed -> Walking, Skating, Biking
3. Various Distance-Time Graphs

4. Graph Matching