Physics 112

Monday, November 9/15

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

Textbook - ISBN

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1. Return - Explain That Stuff #7 - Tomorrow
2. Investigation- Atwood's Machine -> Due: Tuesday, Nov. 10/15
3. Worksheets - C4 and C5 Problems/Atwood's Machine Problems
4. Assignment: Unit 2 - S1 & S2 -> Thursday, Nov. 12/15

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5. Unit 2 - Section 3 -> Introduction to Momentum

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 -> $\mathbf{F}_{net} = 0$, $\mathbf{a} = 0$
   -> objects at rest
   -> 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
   -> accelerating objects
   -> C5 Problems
   -> Atwood's Machine Problems
10. Newton's Third Law of Motion -> Law of Action and Reaction
    -> action and reaction forces

Physics 122

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Monday, November 9/15

1. Return - Explain That Stuff #7

2. Experiment 9.1 - Conservation of Momentum
   - Due: Tuesday

3. Worksheet - Extra 2D Collisions/Explosions

4. Assignment: U1-S4 -> Tuesday, Nov. 10/15 [three problems]

Science 10

Friday, November 6/15

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1. Progress Reports
2. Worksheet - Finding the Slope from a Graph - Place in Bin Today
3. Activity - Speed of a Tumble Buggy - Continue
4. Distance vs Time Graphs
5. Slope and Speed
6. HW - Distance vs. Time Graphs for Cars: 1, 2, 3 and 21
   Find the slope of each line.

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7. Graph Matching