Physics 112

Monday, November 26/18

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1. FA - Impulse-Momentum Problem -Deadline: Monday, Nov. 26/18

2. Questions?
   Worksheet - C5 - Impulse-Momentum Thm.Page 203, PP #33-35
   - Mixed Page 209, PFU #37-45
   Worksheet - Extra Momentum, Impulse and Impulse-Momentum Theorem Problems
   Worksheet - MC - Momentum, Impulse, Impulse-Momentum Thm.

3. Graphical Tracking Sheet

4. SA: U2-S3 - Momentum, Impulse and Impulse-Momentum Theorem
   - Date - Tuesday, Nov. 27/18

5. Unit 3 - Work and Energy - Concept Sheet
   - Learning Targets
   - Graphical Tracking Sheet

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6. U3 - Section 1: Work

7. Energy

8. Work

9. Problem - Work Done

10. Worksheet -C6 - Work, PP #1-3

11. Three Cases - No Work is Done

12. Worksheet -C6 - Work, PP #4-10

13. Types of Work - Positive and Negative Work

Physics 112

MC - $\vec{p}$, $\vec{J}$, $\vec{J} = \vec{q}\vec{p}$

1. D	6. B	11. C	16. C	21. D
2. C	7. C	12. C	17. C	22. D
3. B	8. A	13. D	18. A	
4. A	9. C	14. C	19. A	
5. B	10. C	15. B	20. C	

Physics 122

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1. Experiment 8.1 - Kepler's Laws - Page 49 - Submit for Marks
   - Due - Tuesday, November 20/18

2. FA - Kepler's Third Law - Deadline: Nov. 22/18
   FA - Universal Law of Gravitation
   FA - Orbital Period, Speed and Acceleration due to Gravity
   } Deadline: Nov. 27/18

3. FA - Mixed: Circular Motion and Planetary Motion (Optional)

4. Graphical Tracking of FAs

5. SA - U2: S1&2 (Circular and Planetary Motion)
   - Date: Wednesday, Nov. 28/18

   - Format: MC
     5 Problems - Uniform Circular Motion
     - Unbanked/Banked Curves
     - Kepler's Third Law
     - Law of Universal Gravitation
     - Planetary Motion (g, v, T)

6. U2 - Section 3: SHM

7. SHM, Amplitude, Period and Frequency

8. Two Requirements for SHM

9. Pendulum

10. Worksheet - Pendulums -> Text: C13 Page 614, PP #5-8
    Text: C13 Page 623, PFU #28

Physics 122 - MC [Circular and Planetary Motion.

1. A	5. C	9. A	13. B	17. B	21. C	25. D	29. D	
2. C	6. B	10. B	14. B	18. D	22. B	26. B	30. A	
3. A	7. B	11. C	15. B	19. A	23. C	27. B	31. B	
4. A	8. B	12. D	16. B	20. A	24. D	28. A	32. B	

Science 10

Monday, November 26/18

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1. Science Articles - Complete 8 by the end of the semester.
2. Return/Submit: FA - Metric Conversions
3. Topics -> SA - Physics #1 (Physics to Metric Conversions)
4. Review -> SA - Physics #1
5. SA - Physics #1: Thursday, Nov. 29/18
6. Roller Coasters

Topics: SA - Physics #1

1. definitions: physics, linear motion, physical quantity, significant digits, certainty, exact value, defined value, rounding digit, defining equation

2. SI System - International System of Units
   - know the SI base units for length, time and mass
   - be able to identify a derived unit

3. certainty - identify certain and uncertain digits in a measurement
   - determine the certainty of a measurement by stating its number of significant digits

4. scientific notation

5. rounding measurements

6. SDs and operation rules - Certainty Rule
   -> multiplication and division
   -> total # of significant digits
   - Precision Rule
   -> addition and subtraction
   -> # of digits after the decimal

7. rearrange an equation for a specified variable

8. perform metric conversions using conversion factors