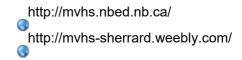# Physics 112

Wednesday, November 28/18

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1. Return Tomorrow:
   U2-S3 - Momentum, Impulse and Impulse-Momentum Theorem

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

3. U3 - Section 1: Work

4. Energy

5. Work

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

7. Graphic Organizer for Work Problems

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8. Three Cases - No Work is Done

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

10. Types of Work - Positive and Negative Work

Physics 122
Wednesday, November 28/18

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1. SA - U2: S1&2 (Circular and Planetary Motion)

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

3. FA - SHM: Pendulum

4. Review Hooke's Law

5. Period of a Mass on a Spring

6. Review Types of Energy

7. Energy of a Mass on a Horizontal Spring

8. Maximum Speed of a Mass on a Spring

9. Speed Of A Mass On A Spring At Any Point

10. Worksheet - Mass on a Spring -> Text: Page 608, PP #1-4
     Text: Page 623, PFU #23-27, 30

11. FA - SHM: Mass on a Spring

Science 10
Wednesday, November 28/18

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1. Science Articles - Complete 8 by the end of the semester.

2. Return/Submit: FAs

3. Topics -> SA - Physics #1 (Physics to Metric Conversions)

4. Check
   Review -> SA - Physics #1

5. SA - Physics #1: Thursday, Nov. 29/18

6. Roller Coaster

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