Physics 112

Friday, December 15/17

http://mvhs.nbed.nb.ca/

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

---

1. Check:
   Worksheet - Textbook - C6 PP #19-21 | E_k and $W = \Delta E_k$
   Textbook - C6 PP #22-25
   Worksheet - Textbook - C6 PP #27 and 29 | E_g and $W = \Delta E_g$
   - Textbook - C6 PP #30 and 33
   Worksheet - Textbook - C6 PP #35-37 | Hooke's Law & E_e
   Textbook - C6 PP #38-40
   Worksheet - Textbook - C6 PFU Omit - #28 - Mixed Problems
2. FA: $W = \Delta E_g$
3. Worksheet - Types of Energy and Work-Energy Theorems

---

4. U3-S4 - Systems and Conservation of Energy
5. Systems
6. The Law of Conservation of Energy
7. Demo - Popsicle Chain Reaction
8. Examples - Conservation of Energy Problems
9. Worksheets

FA -> $W =_{\Delta} E_g$ Dec. 15/17

On Planet X a 0.50 kg space rock falls a distance of 2.5 meters and loses 20 J of energy. What is the magnitude of the acceleration due to gravity on Planet X?

#8 from Worksheet: Types of Energy and Work-Energy Thms.

Physics 122

Friday, December 15/17

http://mvhs.nbed.nb.ca/

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

1. Worksheet - Coulomb's Law - Three Charges
   Textbook: Page 640 - #7 and 8
   Worksheet - Textbook: C14 Page 646, #11-14
   Textbook: Page 655, #20-24 | electric field strength

2. SA - U3 S1: Electrostatics - Wed. Next Week.
   MC / Diagrams
   Prob.

3. U3-S2 - Electric Circuits

4. Potential Difference and Flowing Charge

5. Electric Current

6. Worksheet - Textbook - C15 - Page 696, PP #4-10

6. Circuit Symbols

7. Conventional Current vs. Electron Flow

8. Ammeters and Voltmeters

9. Resistance to Flow of Charge - To Be Continued

---

10. Worksheet - Textbook: C15, Page 708, #16-20

11. Ohm's Law

Science 10

Friday, December 15/17

http://mvhs.nbed.nb.ca/

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

---

1. Optional Assignment - Graphing Characters (max 2 -20 pts each)
   - Submit before Christmas break.

2. Questions?
   Worksheet - Speed, Distance and Time
   Worksheet - Understanding Concepts - Page 358: #3-9

3. Review: SA - Physics #2

4. SA - Physics #2 - Next Tuesday or Wednesday

5. Types of Physical Quantities: Scalars and Vectors - To Be Cont'd

6. Direction

---

7. Position and Displacement

8. Exercise - 100 Acre Woods

Topics - SA: Physics #2

1. Plot and label points in the four quadrants.

2. Write the coordinates of a plotted point.

3. Determine the slope of a line using:

$$m = \frac{\text{rise}}{\text{run}} \quad \text{OR} \quad m = \frac{y_2 - y_1}{x_2 - x_1}$$

4. Draw and label a distance vs. time graph.

5. Be able to determine the speed of an object from a distance vs. time graph.

6. Match a graph to a story/interpret a graph.

7. Identify the type of motion of an object (uniform motion or uniformly accelerated motion).

8. Answer questions about distance vs. time graphs.

9. Solve average speed problems. (3) ~~x~~ not on review