Physics 112

Thursday, September 14/17

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

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

Bus Evacuation ->10:15-10:30 Bus #2

1. Assignment - Alphabetical Autobiography
   - Check in by Friday, Sept. 15/17

2. FA - Conversions and Rearranging Equations

3. Summative Assessment - Basic Skills
   - Topics
   - Fri, Sept 15/17.

4. Concept Sheet -> Unit 1 - Section 1: Vector Analysis

5. Unit 1 - Learning Targets

6. Mechanics

7. Types of Physical Quantities

8. Vectors: Direction, Notation and Representation

9. Adding Vectors Graphically

10. Range of Resultant Magnitudes

11. Rubric: Vector Analysis

Physics 112 - FA - Basic Skills #2 - S14/17

1. Perform the following conversions. Use conversion factors i part (a). Show some work for part (b).

   (a) Convert 0.0902 Gg to cg.
   (b) Convert 45 m/s to km/h.

2. Rearrange each equation for the indicated variable.

   (a) $E_e = \frac{1}{2}kx^2$ [x]

   (b) $v_f^2 = v_i^2 + 2ad$ [a]

   (c) $\frac{b}{p} = \frac{s - 1}{n + 7}$ [n]

SA: Basics Skills - Topics

1. physics - definition
2. physical quantity - definition
3. measurements - two parts
4. scientific notation
5. accuracy/precision - definitions, interpret scenario
6. significant digits - in a given measurement
   - Precision (+ and -) & Certainty (x and ÷) Rules
7. SI system - quantities and 7 base units (names/symbols)
   - derived units
8. SI prefixes - names, symbols and powers of ten
9. metric conversions - 1 step
   - 2 steps
   - m/s ⟷ km/h
10. rearranging equations

Physics 122

Thursday, September 14/17

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

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

FA - Push/Pull

1. Return Rated -> FA - Determine $\vec{R}$.
2. Check -> Worksheet - Type II - Simple
3. Example - Type II: Suspended Objects - Complex
4. Worksheet - Type II - Complex - HW

---

5. Type III - Inclined Plane Problems
6. Examples - Type III: Inclined Plane Problems

Formative Assessment - Pull Problem S14/17

A block is pulled along a horizontal surface by a string. The string makes an angle of 30º to the horizontal and is pulled by a 100 N force. If the coefficient of friction between the surface and block is 0.23, and the magnitude of the acceleration of the block is 1.7 m/s^2, what is the mass of the block? (25 kg)

Science 10

Thursday, September 14/17

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

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

---

1. Assignment - Autobiographical Poem
   Due: Friday, Sept. 8/17
   4 Days Late

2. Assignment - Your Name in Chemical Symbols
   - Due: Friday, Sept. 15/17

3. Ionic Bonds - P5

4. Simple Binary Ionic Compounds - P5

5. Worksheet #2 - Simple Binary Ionic Compounds
   ——————————————— P5

6. Polyatomic Ions

7. Ionic Compounds Containing Polyatomic Ions

8. Worksheet #3 - Ionic Compounds Containing Polyatomic Ions
   ——————————————— P4

9. Transition Elements

10. Multivalent Metals and Their Ions

12. Ionic Compounds Involving Multivalent Metals

13. Worksheet #4