Physics 112

Wednesday, January 16/19

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

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

1. Exam Review
   Problem #7 -> Impulse-Momentum Theorem
   Problem #8 -> Work-Kinetic Energy Theorem

2. Worksheet - Exam Review Problems

Exam Review - Problem #7 - Impulse-Momentum Theorem

A skateboard is rolling across a smooth, flat floor with a momentum of 6.0 kgm/s [N] when a boy kicks it, causing it to speed up to 4.5 m/s in 0.50 seconds without changing direction. If the force exerted by the boy on the skateboard in its direction of motion was 6.0 N, what was the mass of the skateboard?

2.0 kg

Exam Review - Problem #8 - Work-Kinetic Energy Theorem

A 2.5 g bullet hits a tree and slows uniformly to a stop while penetrating a distance of 12 cm into the tree's trunk. If a force of magnitude 1276 N was exerted on the bullet to bring it to rest, what was the initial kinetic energy of the bullet?

1.5×10^2 J

Physics 122

Wednesday, January 16/19

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

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

1. Submit:
   FA - Coulomb's Law - Three Charged Bodies in a Line
   FA - Coulomb's Law - Three Charged Bodies at Angles
   FA - Electric Field Strength

2. Questions?
   Series Circuits -Textbook: Page 719, #27-31
   Parallel Circuits - Textbook: Page 724, C15 - PP#32-35
   Combination Circuits - Textbook: Page 728, #36-37
   Textbook: Page 749, #33-34

3. Circuits #1 and #2

4. Review - Electrostatics and Circuits

Science 10

Wednesday, January 16/19

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

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

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

2. Worksheet: Constant and Average Velocity Problems
   Worksheet - Position vs Time Graphs
   Worksheet - Acceleration

3. Practice Exam

4. Review - SA Physics #3

5. Roller Coasters