Science 9

Tuesday, January7/20

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

Exams

STEM - Thursday, February 6/20 (Morning)

1. Activity: Human Genetic Disorders -> Continue
   -> Due: Friday, Dec. 20/19
   -> 1 Day Late

2. Crossword Puzzle - Cellular Processes (Optional)

3. Can Genetic Conditions be Cured?

4. Biotechnology

5. Genetic Engineering - Notes
   - Video Clips - To Be Continued

- Pros and Cons
  - Handout and Graphic Organizer

Physics 112

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

Tuesday, January 7/20

Exams

1. Return:
   FA - Gravitational Potential Energy
   FA - Change in Gravitational Potential Energy
   } LC Due - Frid. before break

2. Questions?
   Worksheet: Types of Energy and Work-Energy Theorems
   -> Elastic Potential
   -> Mandatory Problems

3. FA - Elastic Potential Energy - Due: Wed., Jan. 8/20

4. The Law of Conservation of Energy - To Be Continued

5. Worksheet - Systems and Conservation of Energy

6. FA - Mechanical Energy - No LC Required
   FA - Conservation of Energy

7. SA - Work, Types of Energy, W =Δ E, Conservation of Energy
   - Date: Tuesday, Jan 15/20

8. Exam Review - Topics
   - Format
   - Problems

Physics 122

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

Tuesday, January 7/20

Exams

1. Return:
   SA - SHM and Projectiles

2. Questions?
   Worksheet - Electric Charge and Coulomb's Law
   -> Electric Charge
   -> Coulomb's Law - 2 Charges

3. Coulomb's Law - 3 Charges - Finish Example (b) for tomorrow.

4. Electric Fields

5. Strength (Intensity) of an Electric Field

6. Review - Gravitational Potential Energy

7. Electric Potential Energy

8. Electric Potential Difference

9. Unit 3 - Section 2: Electric Circuits

10. Potential Difference and Flowing Charge

11. Electric Current

12. Circuit Symbols

13. Conventional Current vs. Electron Flow

14. Ammeters vs Voltmeters

15. Resistance to Flow of Charge

16. Ohm's Law

17. Series Circuits

18. VIR Chart

19. Parallel Circuits

20. Complex/Combination Circuits

Science 10

Tuesday, January 7/20

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Bus Supervision - After School

Exams

1. Worksheet - Acceleration Problems
   Worksheet -> Freely Falling Bodies

2. Optional Extension -> Worksheet - Acceleration , Velocity and Time

3. Topics - Physics #3

4. Review - SA Physics #3

5. SA Physics #3 - Date: Friday, Jan. 10/20

Topics - SA: Physics #3

1. definitions: scalar quantity, distance, speed, vector quantity, reference point, position, displacement, constant velocity, resultant displacement, average velocity, acceleration

2. directions: positive (east, north, up , right)
   negative (west, south, down, left)

3. physical quantities: type, symbol and unit

4. determine the slope of a line using:

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

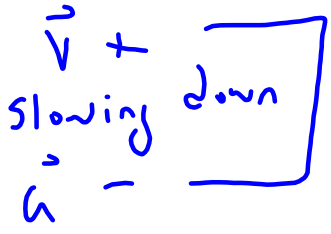
5. identify types of motion:
   1. uniform (constant velocity)
   2. uniformly accelerated motion (changing velocity)
      * acc. is constant

6. answer questions about position vs. time graphs

7. draw a velocity vs. time graph given a position-time graph

8. answer questions about velocity vs. time graphs

9. describe the motion of an object by comparing the directions of the object's velocity and acceleration



10. solve word problems:
    (i) displacement
    (ii) constant velocity
    (iii) average velocity
    (iv) acceleration (including freely falling body)