Science 9

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Friday, December 13/19

1. IC SA - Cellular Processes - Submit Monday for Marking
2. Crossword Puzzle - Cellular Processes (Optional)
3. Work Owing

Physics 112

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

Friday, December 13/19

1. Questions?
   Worksheet: Types of Energy and Work-Energy Theorems
   -> Kinetic Energy
   -> Work-Kinetic Energy Theorem

2. FA - Kinetic Energy - LC Due - Tuesday, Dec. 17/19

3. FA - Work-Kinetic Energy Theorem (Formulas)
   FA - Work-Kinetic Energy Theorem (Problem)

4. Gravitational Potential Energy

5. Reference/Zero Lines

6. Work-Gravitational Potential Energy Theorem - To Be Continued

7. Worksheet: Types of Energy and Work-Energy Theorems
   -> Gravitational Potential Energy
   -> Work-Gravitational Potential Energy Theorem

Physics 122

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Friday, December 13/19

1. Questions?

2. Worksheet - Projectiles
   -> Projectiles Launched Horizontally
   -> Projectiles Fired at an Angle

3. FA - Projectile Launched Horizontally
   FA - Projectile Fired at an Angle

4. SA: SHM and Projectiles -> Date - Tuesday, Dec. 17/19

5. Unit 3 - Electrostatics and Electric Circuits

6. Electrostatics

7. Type of Charge

8. Amount of Charge

9. Transfer of Charge

10. Law of Conservation of Electric Charge

11. Electrostatic Force

12. Coulomb's Law - To Be Continued

Science 10

Friday, December 13/19

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1. Return -> SA: Physics #2
2. Acceleration - Recap
3. Velocity-Time Graphs
4. Worksheets - Velocity vs Time Graphs
   - Skip parts dealing with distance and displacement.

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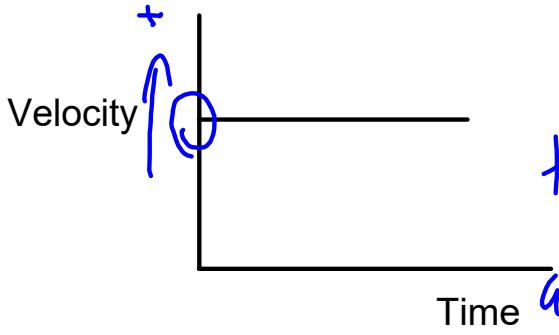
5. Velocity vs Time Graphs and Displacement
6. Defining Equation for Acceleration
7. Worksheet - Acceleration Problems

Velocity-Time Graphs

(+ve is short for positive)

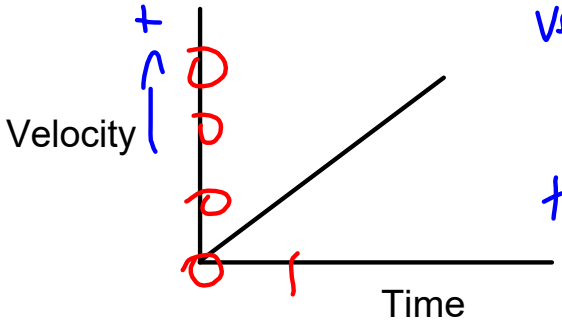
(-ve is short for negative)

Velocity vs Time



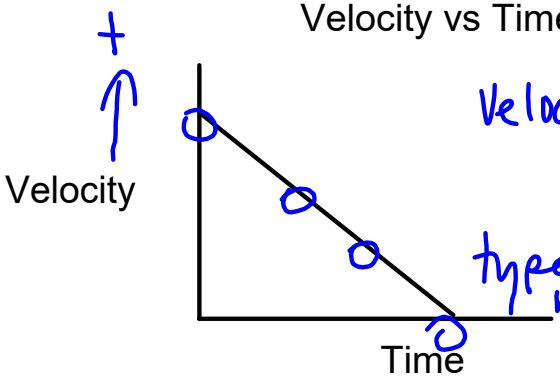
velocity → constant
→ positive (+ve)
type of motion → uniform
acceleration → 0 m/s²

Velocity vs Time



velocity → changing
→ +ve
speeding up
type of motion → uniformly acc'd motion
acceleration → +ve

Velocity vs Time



velocity → changing
→ +ve
slowing down
type of motion → uniformly acc'd motion
acceleration → −ve