

Physics 112

Friday, April 26/19

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



1. Reassessment SA - U2: S1&2 -> Date: week after next
2. SA- U2S3 -> Date: Wednesday, May 1/19
3. Return/Submit -> FA: Momentum
FA: Impulse
FA: Change in Momentum - OPTIONAL
FA: Impulse-Momentum Theorem (Formulas)
FA: Impulse-Momentum Theorem (Problem)
4. Questions?
Worksheet: C5 - Momentum, Page 197: PP #29
C5 - Impulse, Page 200: PP #30-32
Worksheet - C5 -Textbook: Page 203, PP #33-35
C5 - Textbook: Page 209, #37-45
MC - Momentum, Impulse and Impulse-Momentum Theorem
Worksheet - Extra Momentum, Impulse, Etc.

Physics 122

Friday, April 26/19

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



1. Return -> SA - Electric Circuits - Date: Thursday, April 25/19

2. Questions?

[Worksheet - Circular Motion](#)

[Worksheet - Unbanked and Banked Curve Problems](#)

3. Task Sheet #3

4. U2 - S2: Universal Gravitation

5. Two Theories of Planetary Motion

6. Kepler's Three Laws of Planetary Motion

7. Kepler's Third Law Examples

8. Worksheet - Kepler's Laws

9. Experiment 8.1 - Kepler's Laws - Page 49

Science 122

Friday, April 26/19

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

1. SA - Nuclear Physics -> Date: Tuesday, April 30/19

2. Questions?

Worksheet - #63

Worksheet - #64

Worksheet - Assigning Oxidation Numbers

3. Balancing Redox Reactions Using Oxidation Numbers

4. Examples: Balancing Redox Reactions Using Oxidation Numbers

Science 122

new terms: nucleon, isotope, nuclide, standard atomic notation, nucleon number, radioactive, radioactive decay, transmutation, alpha decay, alpha particle (α), parent nucleus, daughter nucleus, beta decay, beta particles (electron ${}_{-1}^0e$, positron ${}_{+1}^0e$), gamma decay (γ), photon, decay series, half-life, activity, decay constant, becquerel, curie, electron-volt, quantum (Planck), photon (Einstein), photoelectric effect, photoelectron, work function, cut-off (threshold) frequency, wave-particle duality, deBroglie wavelength, quantum jump, excited state, energy level diagrams, binding energy, ionization

short answer:

-> compare terms

-> standard atomic notation

-> transmutations

-> formation of electron in beta decay $n \rightarrow p^+ + e^-$

-> formation of positron in beta decay $p^+ \rightarrow n + e^+$

-> penetration power

-> energy vs frequency graph (photoelectric effect)

-> energy level diagrams

problems: 2 (activity, decay constant, half-life, etc.)

2 (photoelectric effect)

1 quantum jump

1 deBroglie wavelength

Science 10

Friday, April 26/19

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



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



1. SA - Chemistry

2. Next Unit: Physics

3. Physics

4. Linear Motion

5. Physical Quantities

6. SI System of Units -> Fundamental/Base Units
-> Derived Units

7. Scientific Notation

8. Certainty and Significant Digits

9. Rule for Counting SDs

10. Exact and Defined Values

11. Rounding Values

12. Worksheet – Counting Significant Digits and Rounding

13. Certainty Rule for Multiplying and Dividing Measurements

14. Precision Rule for Adding and Subtracting Measurements

15. Worksheet – Certainty and Precision Rules