

Physics 112

Thursday, April 25/19

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1. Reassessment SA - U2: S1&2 -> Date: To Be Determined
 2. 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
 3. Return/Submit -> FA: Momentum
FA: Impulse
 4. FA: Change in Momentum - OPTIONAL
FA: Impulse-Momentum Theorem (Formulas)
FA: Impulse-Momentum Theorem (Problem)
 5. MC - Momentum, Impulse and Impulse-Momentum Theorem
 6. Worksheet - Extra Momentum, Impulse, Etc.
 7. SA- U2S3 -> Date: To Be Determined
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1. SA - Electric Circuits - Date: Thursday, April 25/19

2. [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. Experiment 8.1 - Kepler's Laws - Page 49

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1. SA - Nuclear Physics -> Date: Tuesday, April 30/19
2. Questions?
Worksheet - #63
3. Example Using 5 Steps for Predicting Redox Reactions
4. Worksheet - #64
5. Oxidation States/Numbers
6. Worksheet - Assigning 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

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1. SA - Chemistry #3

- Date: Thursday, April 25/19

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