

Physics 112


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Monday, April 29/19

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1. Reassessment SA - U2: S1&2 -> Date: Next Week
 2. SA- U2S3 -> Date: Wednesday, May 1/19
*Pre-Summative Checklist
 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.
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5. Task Sheet - Unit 3 and Unit 4
 6. Unit 3 - Work and Energy
 7. Concept Sheet: U3 S1 - Work
 8. Energy
 9. Work
 10. Worksheet - C6 - Work: Page 221: PP #1-3
 11. Three Cases - No Work is Done
 12. Worksheet - C6 - Work: PP #4-10
 13. Types of Work - Positive and Negative Work
 14. Worksheet - C6 - Positive and Negative Work
Page 235 - PP #14, 15

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1. Return -> SA - Electric Circuits
 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. SA - Experiment 8.1 - Kepler's Laws - Page 49
Time will be given in class tomorrow to work on Exp. 8.1.
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9. Worksheet - Kepler's Laws

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1. Questions?

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

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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. Return -> 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 - To Be Continued
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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