

Physics 112

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Wednesday, April 24/19

1. Questions?
Return -> SA - U2: S1&2
 2. Questions?
Worksheet: C5 - Momentum, Page 197: PP #29
C5 - Impulse, Page 200: PP #30-32
 3. FA - Momentum
FA - Impulse
 4. Questions?
Worksheet - Textbook: Page 203, PP #33-35
Textbook: Page 209, #37-45
 5. MC - Momentum, Impulse and Impulse-Momentum Theorem
 6. Worksheet - Extra Momentum, Impulse, Etc.
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Physics 122

Wednesday, April 24/19

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1. SA - Electric Circuits - Date: Thursday, April 25/19
 2. Questions?
[Worksheet - Circular Motion](#)
 3. Unbanked Curves and Centripetal Force
 4. Banked Curves and Centripetal Force
 5. [Worksheet - Unbanked and Banked Curve Problems](#)
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6. U2 - S2: Universal Gravitation
 7. Two Theories of Planetary Motion
 8. Experiment 8.1 - Kepler's Laws - Page 49

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Wednesday, April 24/19

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1. SA - Nuclear Physics -> Date: Tuesday, April 30/19
 2. Questions
Worksheet - #63
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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

Science 10

Wednesday, April 24/19

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1. SA - Chemistry #3
- Date: Thursday, April 25/19
 2. Check -> Review SA - Chemistry #3
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3. Next Unit: Physics
 4. Physics
 5. Linear Motion
 6. Physical Quantities
 7. SI System of Units -> Fundamental/Base Units
-> Derived Units
 8. Scientific Notation
 9. Certainty and Significant Digits
 10. Rule for Counting SDs
 11. Exact and Defined Values
 12. Rounding Values
 13. Worksheet – Counting Significant Digits and Rounding
 14. Certainty Rule for Multiplying and Dividing Measurements
 15. Precision Rule for Adding and Subtracting Measurements
 16. Worksheet – Certainty and Precision Rules