

Physics 112

Monday, December 3/18

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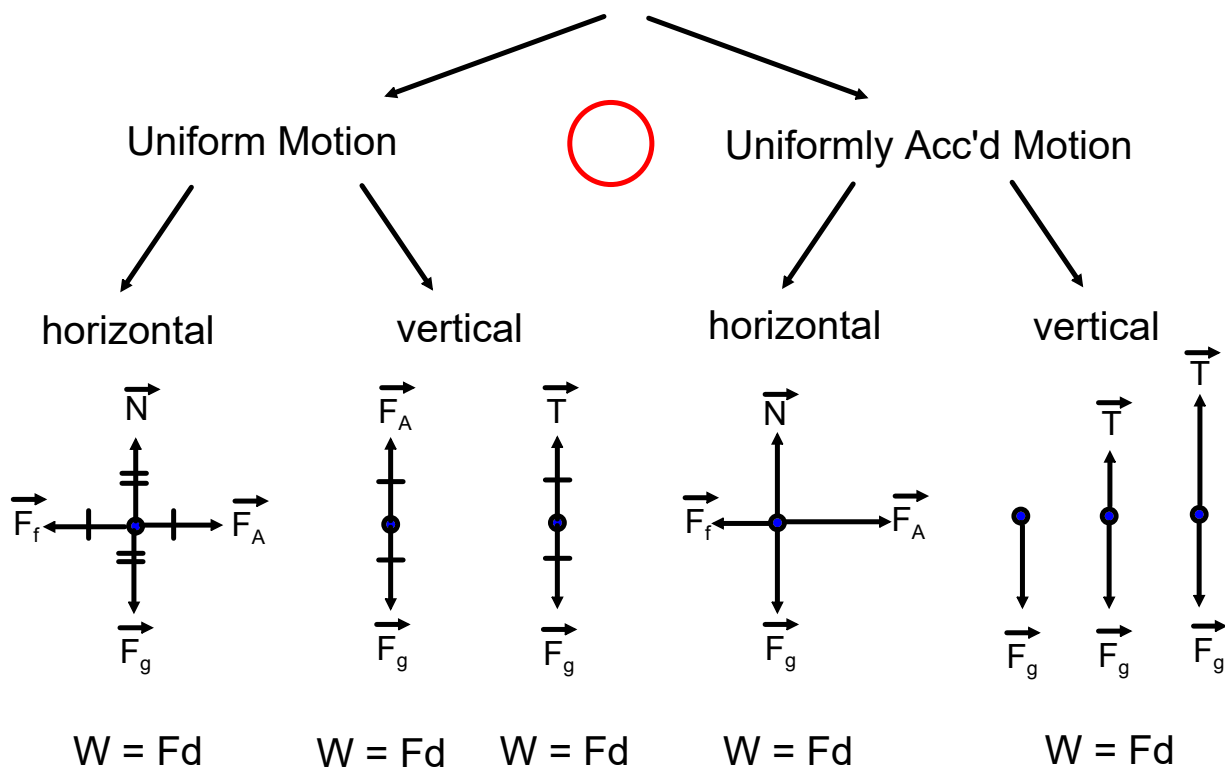


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1. Return:
U2-S3 - Momentum, Impulse and Impulse-Momentum Theorem
 2. Final Answers for PPs and PFUs
 3. Graphic Organizer - Work Problems → Do F vs (m or W)
 4. Three Cases - No Work is Done
 5. Worksheet - C6 - Work, PP #4-10
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6. Types of Work - Positive and Negative Work
 7. FA - Work
 8. Work Done by Forces - F vs D Graphs
 9. SA - U3S1 - Work: _____
 10. U3S2 - Types of Energy and Work-Energy Theorems - Concepts
 11. Types of Energy
 12. Kinetic Energy
 13. Work-Kinetic Energy Theorem
 14. Worksheet -C6 PP #19-21 -> Kinetic Energy
- C6 PP #22-25 -> E_k and Work- E_k Theorem
 15. FA - Kinetic energy and Work- E_k Theorem - TBD
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Work Problems



Physics 122

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1. Return:
SA - U2: S1&2 (Circular and Planetary Motion)
 2. Questions?
Worksheet - Pendulums -> Text: C13 Page 614, PP #5-8
Text: C13 Page 623, PFU #28
 3. FA - SHM: Pendulum - Tomorrow
 4. Review Hooke's Law
 5. Period of a Mass on a Spring
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6. Review Types of Energy
 7. Energy of a Mass on a Horizontal Spring
 8. Maximum Speed of a Mass on a Spring
 9. Speed Of A Mass On A Spring At Any Point
 10. Worksheet - Mass on a Spring -> Text: Page 608, PP #1-4
Text: Page 623, PFU #23-27, 30
 11. FA - SHM: Mass on a Spring
 12. U2S4 - Projectile Motion
 13. Terms to Know
 14. Projectile Fired Horizontally
 15. Formulas: Horizontal Projectiles
 16. Worksheet - Horizontal Projectiles: C11, Text 536, PP #1-8
 17. Projectile Fired at an Angle - Actual vs Theoretical Path
 18. Projectile Motion at Various Initial Angles
 19. Special Case
 20. Formulas: Projectile Launched At an Angle
 21. Other Possible Trajectories
 22. Worksheet - Projectiles Fired at an Angle
- C11, Text 543, PP #9-12
Worksheet - Projectiles Fired at an Angle
- C11, Text 549, PP #13, PP #14 (Level 1)
- C11, Text 570, PFU #17, 19, 20 (omit graph)
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Science 10

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1. Science Articles - Complete 8 by the end of the semester.
 2. **SA - Physics #1 - Tomorrow**
 3. Worksheet - Worksheet - Plotting Ordered Pairs
Worksheet - Finding Coordinates
 4. Slope
 5. Worksheet - Finding Slope from a Graph
 6. Optional Assignment - Graphing Characters (Max. 2)
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7. Physical Quantities
8. Distance vs Time Graph
9. Slope and Speed
10. Worksheet - Distance vs Time Graph
11. Graph Matching

Topics: SA - Physics #1

1. definitions: physics, linear motion, physical quantity, significant digits, certainty, exact value, defined value, rounding digit, defining equation
2. SI System - International System of Units
 - know the SI base units for length, time and mass
 - be able to identify a derived unit
3. certainty - identify certain and uncertain digits in a measurement
 - determine the certainty of a measurement by stating its number of significant digits
4. scientific notation
5. rounding measurements
6. SDs and operation rules - Certainty Rule
 - > multiplication and division
 - > total # of significant digits
 - Precision Rule
 - > addition and subtraction
 - > # of digits after the decimal
7. rearrange an equation for a specified variable
8. perform metric conversions using conversion factors