

# Physics 112

Thursday, December 6/18

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1. Conferences  
Redo - Friday at Noon
  2. Questions?  
Worksheet - C6 - Work, PP #4-10
  3. FA - Work -> Deadline: Monday, Dec. 10/18
  4. Work Done by Forces - F vs D Graphs
  5. SA - U3S1 - Work: Tuesday, Dec. 11/18
  6. U3S2 - Types of Energy and Work-Energy Theorems - Concepts\*
  7. Types of Energy
  8. Kinetic Energy
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9. Work-Kinetic Energy Theorem
  10. Worksheet -C6 PP #19-21 -> Kinetic Energy  
- C6 PP #22-25 ->  $E_k$  and Work-  $E_k$  Theorem
  11. FA - Kinetic energy and Work- $E_k$  Theorem - TBD

# Physics 122

Thursday, December 6/18

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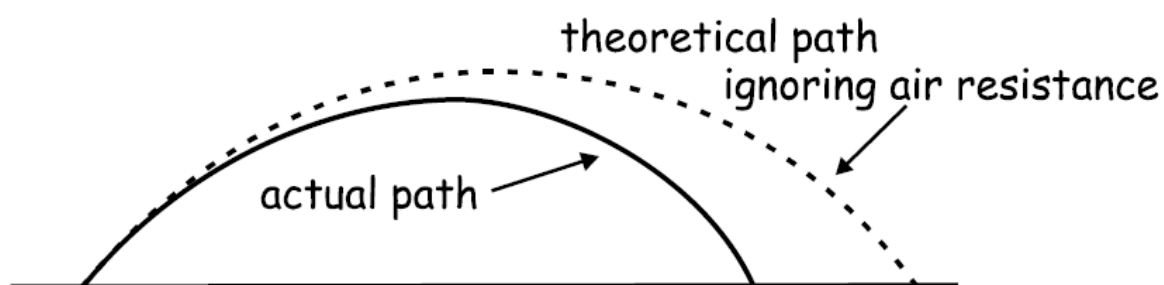
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1. FA - SHM: Pendulum - Deadline: Thursday, December 6/18
  2. Questions?  
Worksheet - Mass on a Spring -> Text: Page 608, PP #1-4  
Text: Page 623, PFU #23-27, 30
  3. FA - SHM: Mass on a Spring - Deadline: Mond., Dec. 10/18
  4. U2S4 - Projectile Motion
  5. Terms to Know
  6. Projectile Fired Horizontally
  7. Formulas: Horizontal Projectiles
  8. [Worksheet - Horizontal Projectiles: C11, Text 536, PP #1-8](#)
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9. Projectile Fired at an Angle - Actual vs Theoretical Path
  10. Projectile Motion at Various Initial Angles
  11. Special Case
  12. Formulas: Projectile Launched At an Angle
  13. Other Possible Trajectories
  14. 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)

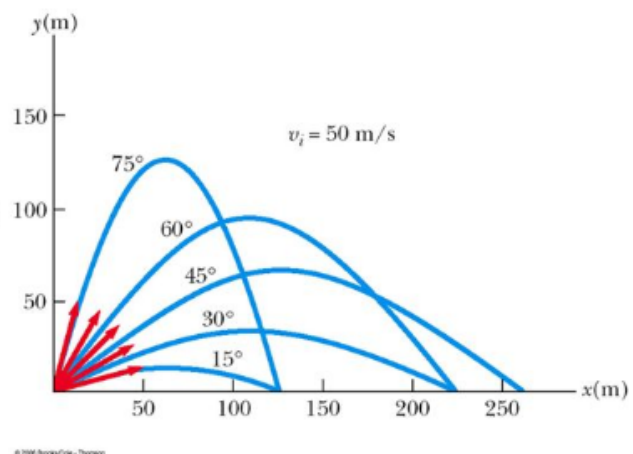
## Projectile Fired at an Angle

### Actual Path vs. Theoretical Path



## Projectile Motion at Various Initial Angles

- Complementary values of the initial angle result in the same range
  - The heights will be different
- The maximum range occurs at a projection angle of  $45^\circ$



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## Science 10

Thursday, December 6/18

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1. Science Articles - Complete 8 by the end of the semester.  
Optional Assignment - Graphing Characters (Max. 2)  
- Due: Dec. 21/18

2. Questions?  
Worksheet - Worksheet - Plotting Ordered Pairs  
Worksheet - Finding Coordinates  
Worksheet - Finding Slope from a Graph

3. FA - Graphing Basics

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4. Physical Quantities

5. Distance vs Time Graph

6. Slope and Speed

7. Worksheet - Distance vs Time Graph

8. Graph Matching

9. Average Speed

10. Problem Solving Strategy

11. Problem Solving Template

12. Examples: Average Speed Problems