

{ May 27 - Professional Learning Day (Friday) }

# Physics 112

Wednesday, May 25/16

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## Explain That Stuff - May 26/16

1. Assignment -> Investigation 6-A Force and Spring Extension  
-> Optional  
-> **Due: Thursday, May 26/16**
  2. Check -> Worksheet: Textbook: Page 266 #41-43 -> Power  
Textbook: Page 270 #44-48 -> Efficiency
  3. **Assignment: U3 - S2 and S3 -> Tuesday, May 31**
  4. U3 - S4: Mechanical Energy and Energy Conservation
  5. The Law of Conservation of Energy
  6. Video Clip
  7. Examples - To Be Continued
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8. Demo - Popsicle Stick Chain Reaction

## Science 122

Wednesday, May 25/16

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1. Check -> Worksheet: Nuclear - Energy Levels
  2. Test - Nuclear Physics -> Monday, May 30/16
  3. Last Topic - Electrochemistry - To Be Continued
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## Science 10

Wednesday, May 25/16

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Roller Coasters - Deadline: Thursday, May 26/16

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1. Article - 3 Days Late
  2. Assignment - Oh What a Tangled Web We Weave  
- 2 Days Late
  3. Roller Coasters
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## Physics 122

Wednesday, May 25/16

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### Explain That Stuff - May 26/16

1. Check: Worksheet - Textbook: C14 - Page 646 PP #11-14  
Page 646 PP #20-24
2. Review - Gravitational Potential Energy
3. Electric Potential Energy
4. Electric Potential Difference
5. Quiz - Electrostatics -> TBA

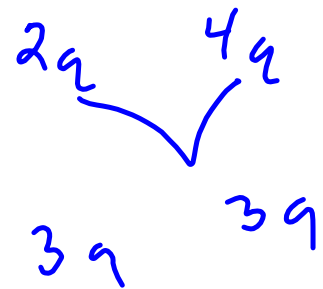
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6. Electric Current
  7. Circuit Symbols
  8. Resistance
  9. Ammeters and Voltmeters
  10. Ohm's Law

Unit 3

-&gt; electrostatics

- structure of an atom
- electrical charges
- transfer of charge between identical objects
  - electrification by friction
  - conduction
  - induction
- electric force - Coulomb's Law
  - 2 charges
  - 3 charges
    - in a line
    - involves angle(s)
- electric fields
  - diagrams
  - electric field strength
- electric potential energy
- electric potential difference

$$q = Ne$$



$$F = \frac{kq_1q_2}{r^2}$$