{ May 27 - Professional Learning Day (Friday) }

#### Physics 112

Tuesday, May 24/16

http://mvhs.nbed.nb.ca/
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#### Explain That Stuff - May 26/16

- 1. Check -> Worksheet: Textbook: Page 258, PP # 35-37 (Hooke's Law) Textbook: Page 261, PP #38-40 (Elastic Energy)
- 2. Assignment -> Investigation 6-A Force and Spring Extension
  - -> Optional
  - -> Due: Thursday, May 26/16
- 3. U3 S3: Power and Efficiency
- 4. Worksheet: Textbook: Page 266 #41-43 -> Power Textbook: Page 270 #44-48 -> Efficiency
- 5. Assignment: U3 S2 and S3 -> \_\_\_\_\_**TBA**

### Science 122 Tuesday, May 24/16



- 1. Energy Level Diagrams Continue
- 2. Worksheet: Nuclear Energy Levels
- 3. Test Nuclear Physics -> Monday, May 30/16
- 4. Last Topic Electrochemistry

# Science 10 Tuesday, May 24/16

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Roller Coasters - Deadline: Thursday, May 26/16

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

# Physics 122

Tuesday, May 24/16

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# Explain That Stuff - May 26/16

- 1. \* Test Unit 2 -> +1?
- 2. Check -> Worksheet: Charge and Coulomb's Law (2 Charges)
  Worksheet Textbook: Page 640, #7, 8
- 3. Electric Fields DiagramsStrength/Intensity
- 4. Worksheet Textbook: C14 Page 646 PP #11-14 Page 646 PP #20-24 HW

Example:

The diagram shows three point charges that lie in the x, y plane. Find the net force on the  $4.0 \mu C$  point charge.  $(23 \text{ N}, 24^{\circ} \text{ N} \text{ of E})$ 

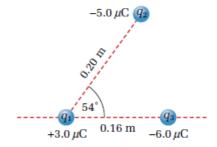
one point charge (25 N, 24 N of 1)

$$1 = 4.0 \times 10^{6} C$$
 $92 : 5.2 \times 10^{6} C$ 
 $93 = 6.0 \times 10^{4} (2.0 \times 10^{4}) (4.0 \times 10^{4})$ 
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 $1 = 4.0 \times 10$ 

#### Textbook: Page 640, #7, 8 Coulomb's Law - Three Charges

#### PRACTICE PROBLEMS

- 6. A single isolated proton is fixed on a surface. Where must another proton be located in relation to the first in order that the electrostatic force of repulsion would just support its weight?
- 7. Three charged objects are located at the vertices of a right triangle. Charge A (+5.0 μC) has Cartesian coordinates (0,4); charge B (-5.0 μC) is at the origin; charge C (+4.0 μC) has coordinates (5,0), where the coordinates are in metres. What is the net force on each charge?
- 8. The diagram shows three charges situated in a plane. What is the net electrostatic force on q<sub>1</sub>?



640 MHR • Unit 6 Electric, Gravitational, and Magnetic Fields