

Physics 112

Tuesday, December 12/17

<http://mvhs.nbed.nb.ca/>



<http://mvhs-sherrard.weebly.com/>



-
1. Check: Worksheet - Textbook - C6 PP #19-21 | E_k and $W = \Delta E_k$
Textbook - C6 PP #22-25
 2. FA - Kinetic and Work-Kinetic Energy Theorem
 3. Check :
Worksheet - Textbook - C6 PP #27 and 29 | E_g and $W = \Delta E_g$
- Textbook - C6 PP #30 and 33
 4. Restoring Force
 5. Hooke's Law
 6. Elastic Limit
 7. Elastic Potential Energy
-
8. Worksheet - Textbook - C6 PP #35-37 | Hooke's Law & E_e
Textbook - C6 PP #38-40
 9. Worksheet - C6 PFU Omit - #28

Formative Assessment

Kinetic Energy and Work-Kinetic Energy Theorem - Dec. 12

A 80.3 kg student wearing frictionless roller skates moving at 1.2 m/s on a horizontal surface is pushed by a friend with a constant force of 45 N.

- a) How far must the student be pushed so that her final kinetic energy is 352 J?
- b) What was the speed of the student after traveling the distance calculated in (a)?

Physics 122

Tuesday, December 12/17

<http://mvhs.nbed.nb.ca/>



<http://mvhs-sherrard.weebly.com/>

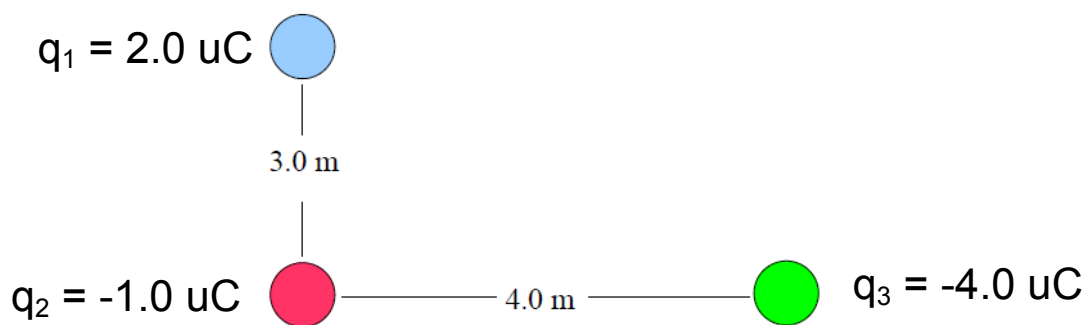


-
1. Check
Worksheet - Coulomb's Law - Three Charges
Textbook: Page 640 - #7 and 8
 2. FA - Coulomb's Law: Three Charges
 3. Worksheet - Textbook: C14 Page 646, #11-14 | electric field strength
Textbook: Page 655, #20-24
-
4. Review - Gravitational Potential Energy
 5. Electric Potential Energy
 6. Formula: Electric Potential Energy
 7. Electric Potential Difference
 8. SA - U3 S1: Electrostatics

Formative Assessment

Coulomb's Law - Dec. 12

Three charges are arranged as shown below. Find the net electric charge on q_3 .



Science 10

Tuesday, December 12/17

 <http://mvhs.nbed.nb.ca/>

 <http://mvhs-sherrard.weebly.com/>

-
1. Optional Assignment - Graphing Characters (max 2 -20 pts each)
- Submit before Christmas break.
 2. Questions?
Worksheet - Questions About Distance-Time Graphs
 3. Problem Solving Template - Continue
 4. Sample Problems: Average Speed Problem
 5. Worksheet - Speed, Distance and Time
Worksheet - Understanding Concepts - Page 358: #3-9
 6. Topics: SA - Physics #2
 7. SA - Physics #2 - Next Tuesday or Wednesday
-

Topics - SA: Physics #2

1. Plot and label points in the four quadrants.
2. Write the coordinates of a plotted point.
3. Determine the slope of a line using:
$$m = \frac{\text{rise}}{\text{run}} \quad \text{OR} \quad m = \frac{y_2 - y_1}{x_2 - x_1}$$
4. Draw and label a distance vs. time graph.
5. Be able to determine the speed of an object from a distance vs. time graph.
6. Match a graph to a story/interpret a graph.
7. Identify the type of motion of an object (uniform motion or uniformly accelerated motion).
8. Answer questions about distance vs. time graphs.
9. Solve average speed problems.

(3) ✗ not
on review