Science 122

Tuesday, November 29/16

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1. Sample Problems - Continue
2. Worksheets (2)

Physics 112

Tuesday, November 29/16

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1. Check -> Worksheet - Textbook ->C6 Page 225: PP #4-10
   C6 Page 235 - PP #14, 15
2. F vd D Graphs
3. Concept Page - U3 - S2: Types of Energy and Work-Energy Theorems
4. Types of Energy
5. Kinetic Energy
6. C6 - Kinetic Energy Page 238: PP #19-21
7. Work-Kinetic Energy Theorem - To Be Continued

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8. Worksheet - C6 - Kinetic Energy Page 238: PP #19-21
   Work-Kinetic Energy Theorem Page 245: PP #22-25

C6 - Kinetic Energy
Page 238: PP #19-21

PRACTICE PROBLEMS

19. A 0.100 kg tennis ball is travelling at 145 km/h. What is its kinetic energy?

20. A bowling ball, travelling at 0.95 m/s, has 4.5 J of kinetic energy. What is its mass?

21. A 69.0 kg skier reaches the bottom of a ski hill with a velocity of 7.25 m/s. Find the kinetic energy of the skier at the bottom of the hill.

C6 - Work-Kinetic Energy Theorem
Page 245: PP #22-25

PRACTICE PROBLEMS

22. A 6.30 kg rock is pushed horizontally across a 20.0 m frozen pond with a force of 30.0 N. Find the velocity of the rock once it has travelled 13.9 m. (Assume there is no friction.)

23. The mass of an electron is 9.1×10^{-31} kg. At what speed does the electron travel if it possesses 7.6×10^{-18} J of kinetic energy?

24. A small cart with a mass of 500 g is accelerated, uniformly, from rest to a velocity of 1.2 m/s along a level, frictionless track. Find the kinetic energy of the cart once it has reached a velocity of 1.2 m/s. Calculate the force that was exerted on the cart over a distance of 0.1 m in order to cause this change in kinetic energy.

25. A child's toy race car travels across the floor with a constant velocity of 2.10 m/s. If the car possesses 14.0 J of kinetic energy, find the mass of the car.

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1. Second Chance -> SA - Projectiles: Friday, Dec. 2/16
   Worksheet - More Projectiles
2. Hooke's Law
3. Types of Energy
4. Period of a Mass on a Spring
5. Energy of a Mass on a Horizontal Spring
6. Maximum Speed of a Mass on a Spring
7. Velocity Of A Mass On A Spring At Any Point
8. Worksheet - Text: Page 608, PP #1-4
   Text: Page 623, PFU #23-27, 30

Science 10

Tuesday, November 29/16

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1. Return -> Physics Quiz #2
2. Types of Physical Quantities
3. Position
4. Displacement
5. Gecko Demo
6. 100 Acre Woods - Activity - Complete

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7. Velocity
8. Calculating Velocity
9. Representing Vector Quantities
10. Resultant Displacement
11. Average Velocity