Science 10

Thursday May 11/17

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1. Check - Constant and Average Velocity Problems
2. Assignment: Average Speed, Constant Velocity and Average Velocity
   Date - Friday, May 12 17
3. Position vs Time Graphs
4. Worksheets (2) - Position vs Time Graphs

Physics 112

Thursday, May 11/17

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1. SA - U3S1 - Work, No Work, Etc. Fill in the blanks.
   - May 12/17 Problems. (5 min)

2. Check:
   Worksheet - Kinetic Energy and Kinetic-Energy Theorem

3. Gravitational Potential Energy - Continue

4. Work-Gravitational Potential Energy Theorem

5. Worksheet - GPE and Work-GPE Theorem

Formative Assessment - Work

1. How much work is done by you on a 15 N sack of potatoes while holding it for 3.0 minutes while standing in line at the grocery store? (0 J)

2. a) How much work was done by the force of gravity on an 18 kg object as it was lifted to a height of 2.3 m at a constant velocity? (4.1×10^2 J)
   b) What type of work was done by the force of gravity? Explain. (negative work - force of gravity and motion have opposite directions)

3. Sheila did 110 J of work to move a chair 2.40 m to the right. How much force did Sheila use to move the chair? (45.8 N)

Physics 122

Thursday, May 11/17

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1. SA - Circular Motion and Heavenly Bodies

2. Questions?
   Worksheet - Mass on a Spring
   Worksheet - Pendulums
   Worksheet: SHM - Mixed Problems

3. Danielle's Question

4. FA - SHM

5. Worksheet -> Text: Page 536, PP #1-8 - HW

FA - SHM

1. A mass of 1.53 kg is attached to a spring and the system is undergoing simple harmonic oscillations with a frequency of 1.95 Hz and an amplitude of 7.50 cm.
   a) What is the speed of the mass when it is 3.00 cm from its equilibrium position? (0.842 m/s)
   b) What is the total energy of the system? (0.646 J)

2. An 8.8 N object vibrates at the end of a horizontal spring along a frictionless surface. If the period of vibration is 1.1 s, what is the spring constant? (29 N/m)

3. A spring oscillates with a 0.5 kg mass at the same frequency as a 2.4 m long pendulum on Earth. What is the spring constant of the spring? (2 N/m)