

Science 122

Thursday, December 8/16

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1. Assignment: Nuclear Decay, Half-Life, Decay Constants & Activity
Due: Monday, Dec. 12/16
 2. Worksheet - Energy of Photons, Work Function, Etc.
Worksheet - Energy Levels
 3. Formative - Photoelectric Effect and Energy Levels
- Monday, Dec. 12/16
 4. SA - Nuclear Physics
- Wed., Dec. 14/16
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Physics 112

Thursday, December 8/16

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1. Formative Assessment - E_k , E_g and Work-Energy Theorems
 2. Check -> Worksheet: C6 - Hooke's Law Page 258: PP # 35-37
C6 - Elastic Potential Energy Page 261: PP #38-40
Worksheet: Work, Types of E and Work-Energy Theorems
C6 - Page 275 - #17, 18, 20, 23, 27, 30, 31
 3. **SA - U3 S1 and S2: Monday, Dec. 12/16**
Format: MC, Fill in the Blanks, Problems

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4. Concept Sheet -> U3 S3 - Power and Efficiency
 5. Power
 6. Efficiency
 7. Concept Sheet -> U3 S4 - Systems and Energy Conservation

Formative Assessment: E_k , E_g and Work-Energy TheoremsThursday, Dec. 8/16

1. An 89 g red-faced boo-hoo bird has 5.3 J joules of kinetic energy. How fast is it flying?
2. A 120 g banana falls from a tree from a height of 5.4 m above the ground and hits a 1.76 m tall gorilla on the top of its head. How much work would you have to do to move the banana from the top of the gorilla's head back to its original position in the tree?
3. A 45 kg object in motion experiences an applied force of 110 N over a distance of 3.6 m which increases the object's speed to 12.7 m/s. What was the initial speed of the object in km/h?

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1. SA - Simple Harmonic Motion
 - **Assignment - Thursday, Dec. 8/16**
 - Multiple Choice and Problems (4)

2. Worksheet - Circular Motion

3. Banked Curves

4. Unbanked Curves

Science 10

Thursday, December 8/16

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1. Assignment - Average Speed, Constant Velocity and Average Velocity

2. Worksheet - Position vs Time Graph

3. Worksheets - Velocity vs. Time Graphs

} HW for Monday