Monday, December 2/13
Physics 112/111

1. Quiz: Work and Types of Energy -> Tomorrow
2. Investigation 6A - Force and Spring Extension (Page 255)
   Due - Wednesday, Dec. 4/13
3. Work-Kinetic Energy Theorem
4. Textbook, PP #22-25, Page 245
5. Work-Gravitational Potential Energy Theorem
6. Textbook: Page 254, PP # 30-33

HW WCA

7. Power
8. Textbook: Page 266 #41-43

Quiz

Format:
- MC (5)
- SA (2)
- Prob. (5)

Rewite: Thursday.

Topics

1. Work $W = F_{\parallel} d$
   - $F_{\parallel} \rightarrow$ individual force.
   - F_{net} = individual force.

2. 3 Cases when no work is done.
   - pp 4-10. $W = F d$ or $F \perp d$ (F → 0, d → 0)

3. Positive vs. Negative Work.
   - i.e. $\vec{F}$ → and $\vec{d}$ → : energy is added to the object.
   - i.e. $\vec{F}$ → and $\vec{d}$ ← : energy is removed from the object.

4. Types of Energy
   - Kinetic: $E_k = \frac{1}{2} m v^2$
   - Potential
     - Gravitational: $E_g = mgh$
     - Elastic or Spring: E_e / E_s $= \frac{1}{2} k x^2$

* Hooke's Law. $F_A = k x$

Quiz => Formulas Provided.

Attachments

Student ID re-takes 2013.doc