

1. Quiz: Work and Types of Energy -> Date - Mon - Dec 2/13
 2. Investigation 6A - Force and Spring Extension (Page 255)
[Be prepared for a pre-lab quiz.](#)
 3. Elastic Potential Energy
 4. Textbook: #35-40 -> [HW](#)
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Quiz

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

Rewrite: Thursday.

Topics

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

2. 3 Cases when no work is done.
p 4-10. $W = \underset{\substack{\downarrow \\ 0}}{F} \cdot \underset{\substack{\downarrow \\ 0}}{d}$ or $F \perp d$

3. Positive vs. Negative Work.
|> $\begin{array}{c} \vec{F} \rightarrow \\ \vec{d} \rightarrow \end{array}$ } energy is added to the object.
|> $\begin{array}{c} \vec{F} \rightarrow \\ \vec{d} \leftarrow \end{array}$ } energy is removed from the object.

4. Types of Energy
 Kinetic $E_k = \frac{1}{2}mv^2$
 Potential
 Gravitational $E_g = mgh$
 Elastic or Spring
 $\boxed{\begin{array}{c} E_e \\ E_s \end{array} = \frac{1}{2}kx^2}$
 * Hooke's Law.
 $F_{\text{sp}} = kx$

Quiz $\rightarrow$ Formulas
 Provided

Attachments

Student ID re-takes 2013.doc