Name: _____

Period: _____

The Law of Conservation of Energy

The Law of Conservation of Energy states:
"Energy is never created nor destroyed just transformed into other forms of energy." OR $\Sigma E_{before} = \Sigma E_{after}$

Yet if energy is added to or removed from the system the total amount of energy has changed. This can only be accomplished by external forces, which is work. If energy is added: positive work was done on the object. If energy is removed: negative work was done on the object. Therefore, work must be accounted for in our equation.

Law of Conservation of Energy

$$\Sigma E_{before} \pm W = \Sigma E_{after}$$

Solving Conservation of Energy Problems

Using Conservation of Energy, many complicated problems can be solved simply.

Example 1: A 2 kg object compresses a spring 0.5 m. If k = 22 N/m, how fast is the object going after the spring is released?

Step 1: *Identify the energies before and after.*

Step 2: *Decide if energy was added (+W), removed (−W), or just transformed (W = 0).*

Step 3: *Put the information from steps 1 and 2 into the Conservation of Energy formula.*

Step 4: *Put in the formulas for the different kinds of energy or for work.*

Step 5: *Put in all of the given information and solve.*

Step 1: $E_{before} = PE_{el}$ *(a compressed spring)*
$E_{after} = E_k$ *(it is moving)*

Step 2: No forces—energy is just transformed.
W = 0 *(no work added or removed)*

Step 3: $\Sigma E_{before} \pm W = \Sigma E_{after}$
$PE_{el} + 0 = E_k$

Step 4: $(\frac{1}{2})kx^2 = (\frac{1}{2})mv^2$

Step 5:

Example 2 : A 3 kg mass at rest on the ground is pushed by an 8 N force for 4 m. How fast is the mass going afterwards?

Step 1: $E_{before} = 0$ *(at rest on the ground)*
$E_{after} = E_k$ *(it is moving)*

Step 2: Energy is added: +W

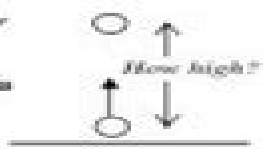
Step 3: $\Sigma E_{before} \pm W = \Sigma E_{after}$
$0 + W = E_k$

Step 4: $0 + Fd = (\frac{1}{2})mv^2$

Step 5:

Example 3 : An object is thrown into the air going 50 m/s. How high up does it go?

NOTE: Follow the steps even though you are not given the mass of the object.



Step 1: $E_{before} = E_k$ *(above the ground)*
$E_{after} = E_p$ *(it is falling)*

Step 2: No work, energy is transferred, so, W = 0

Step 3: $\Sigma E_{before} \pm W = \Sigma E_{after}$
$E_k + 0 = E_p$

Step 4: $(\frac{1}{2})mv^2 = mgh$

Step 5: —\

NOTE: Often you don't need the mass. It may cancel.

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