


$$E_k = \frac{1}{2} m \dot{v}^2$$

$$E_s = \frac{1}{2} k x^2$$



 Spring  
constant
 

 Compression or  
stretch length

$$E_g = mgh$$

$$E_f = \vec{F}_f \vec{d}$$

$$W_{in} = \vec{F} \vec{d} \quad W_{out} = \vec{F}_A \vec{d}$$

$$E = Pt$$