

Review of Work + Energy.

$$W = F_{\parallel} \Delta d \quad (\text{Force must be in the direction of } \Delta d)$$

$$W = F \Delta d \cos \theta \quad (\text{you could do this ALL the time})$$

+ work (F or part of F is in the dir of Δd)

- work (F or part of F is opposing the motion)

No work ($F \perp \Delta d$)

$$W = \text{Area under a } F-d \text{ graph}$$

No work:

① no Δd

② no F

③ $F \perp \Delta d$

$$\text{Kinetic Energy: } E_k = \frac{1}{2}mv^2$$

$$\text{Work-Energy Theorem: } W = \Delta E_k$$

$$\text{Gravitational Potential Energy: } E_g = mgh$$

$$\text{Work-Energy Theorem: } W = \Delta E_g$$

TO DO

① LAB

② ASSIGNMENT

③ PP