<u>Review – Work-Energy - Physics 11 - notes for the video lesson - Chapter 4.1 and 4.2:</u>

TOPICS: https://www.loom.com/share/260681a120ef4616ac2b3d87ab82bda1

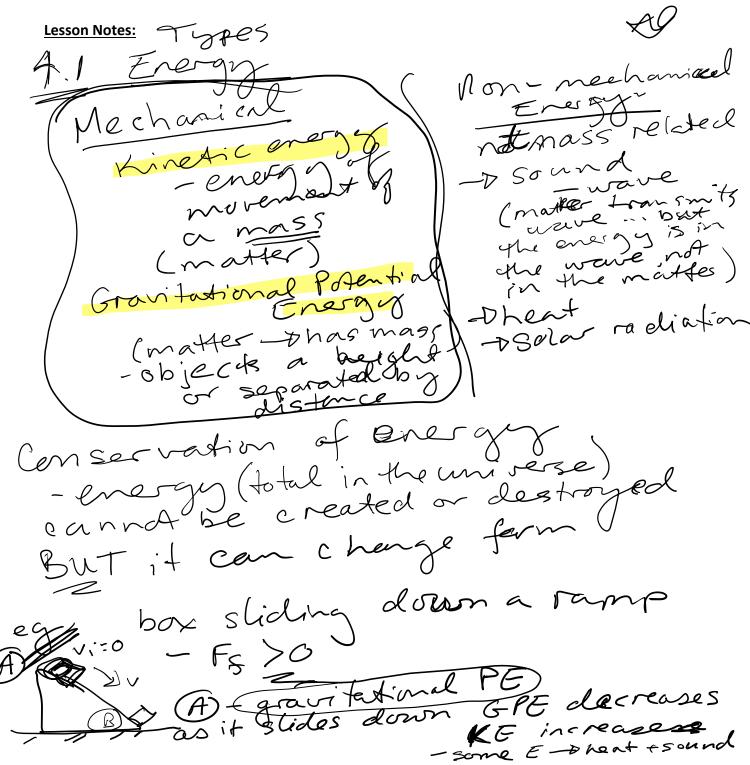
Chapter 4.1: Energy Transformations

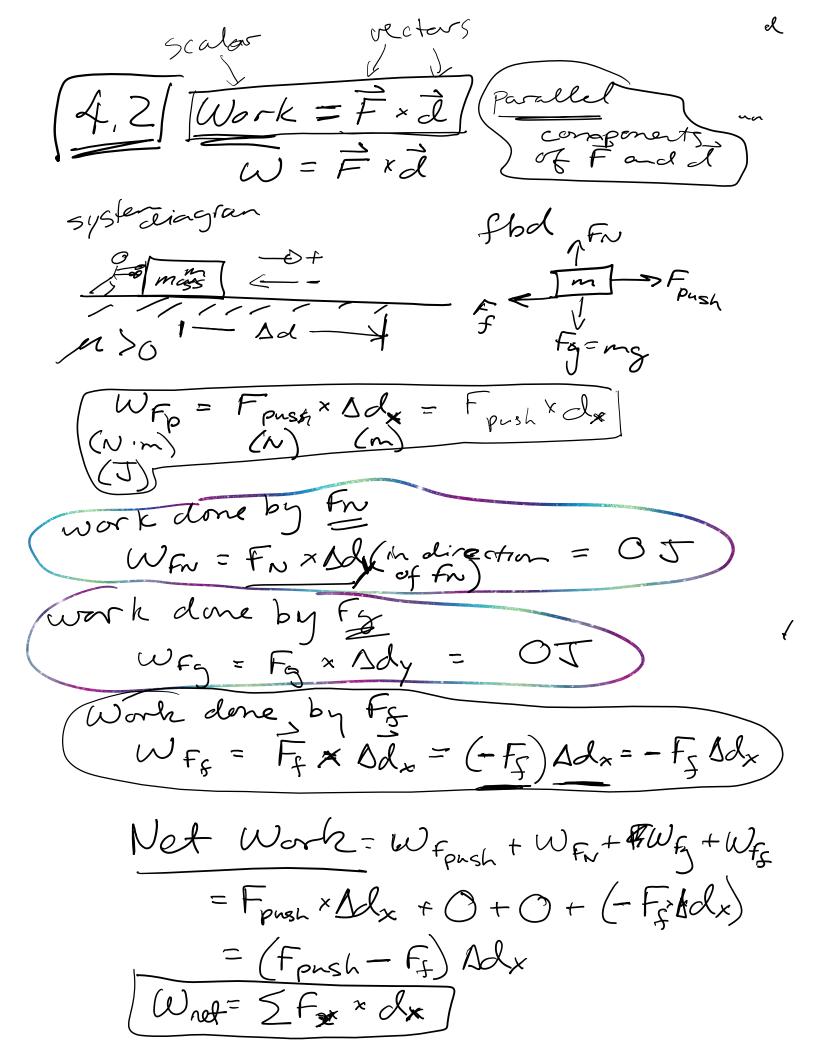
- Forms of energy mechanical vs not mechanical
- Energy transformations

Chapter 4.2: Work

- W = Fd
- Horizontal
- Vertical
- Multiple forces and net work

- Positive work vs negative work
- Zero work
- Area under a F vs d graph = Work





Vertical system ele vator $W_{F_{\tau}} = F_{\tau} * d_{y}$ $W_{F_{g}} = (-F_{g}) * d_{y}$ if dy is I (painve) WET = FT . dy WFg = -Fg.dy $W_{5} = -F_{7} r dy$ $W_{5} = (-F_{5})(-dy) z F_{5} dy$ (Wnet= (F7-Fg)dy Net Work = (Fg-FT) dy my book startmany

holding book startmany

hording book startmany WE = Flift = Idy = (WFg = - Fg Ady $W = F_{2if+} \times h$ $W = F_{2if+} \times h$

Kine makeces FVS I graph = Work dang $\frac{\text{area}}{2} = \frac{1}{2} \left(F_1 + F_2 \right) d_1$ area (2) = (dz-di) Fz area (3) = 1/2 (d3-d2) F2 = = (F, + Fz)d, + (dz-d)Fz Net work 1/2 (d3-d2) FZ if F= + Area= F.d= W