







## **Energy Conservation**

Decrease in one energy = increase in other  $m_2 m_2 m_2 m_3$ 

 $\Delta Ug = -\Delta KE$ 

\*\*\*remember it is a CHANGE but many times either final or initial is 0\*\*\*\*

## Work Energy Theorem

Doing work CHANGES energy

- W + KE<sub>o</sub> + U<sub>go</sub> = KE<sub>f</sub> + U<sub>gf</sub> + fx + Rx OR
- W fx Rx **=**∆U<sub>g</sub> **+**∆KE

