GPE & KE

• GPE GPE = $m \times g \times sh$ (J) (kg) (Nkg⁻¹) (m)

• KE $KE = \frac{1}{2} m v^{2}$

• GPE ↔ KE

若在一运动中,GPE全部转换成KE \triangle GPE=mgsh= $\frac{1}{2}$ mv²=KE 则,V= $\sqrt{2}$ gsh Δ h= $\frac{V^2}{29}$

Work & power

Work & Work done

& Work : scalar Lwork done: rector

Workdone (J) = FW) x DSCM)

W=Fs

Power

def. the rate of energy transfer.
$$P = \frac{W}{t} = \frac{FS}{t} = FV$$

efficiency = energy output energy input