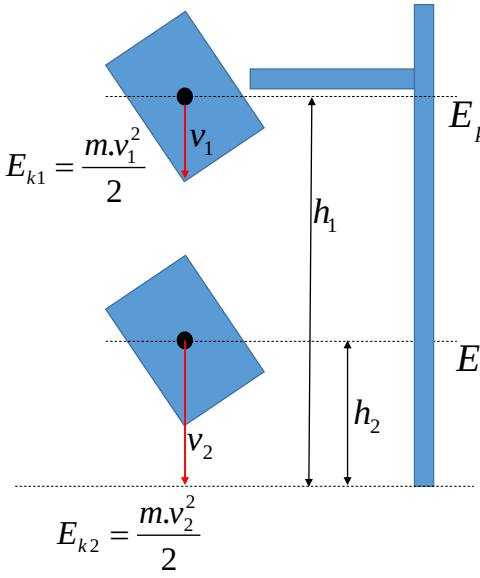
Behoud van energie



$E_{k1} = \frac{m.v_1^2}{2}$

$E_{p,z1} = m.g.h_1$

$E_{p,z2} = m.g.h_2$

$E_{k2} = \frac{m.v_2^2}{2}$

$\Delta E_{p,z} = E_{p,z2} - E_{p,z1}$

$W = E_{k2} - E_{k1} = E_{p,z1} - E_{p,z2}$

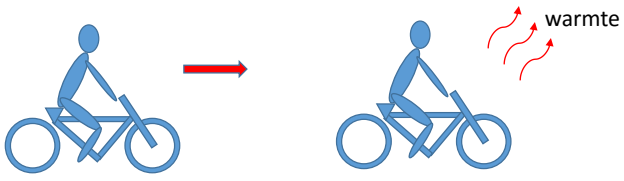
$E_{k,1} + E_{p,z1} = E_{k,2} + E_{p,z2}$

$E_{k,1} + E_{p,z1} + E_{p,v1} = E_{k,2} + E_{p,z2} + E_{p,v2}$

$E_{mech} = E_k + E_{p,z} + E_{p,v} = \text{constant}$

Energie

Afremmen: komt tot stilstand



$E_k = \frac{m.v^2}{2}$

$E_k = 0J$

Mechanische energie niet behouden: wel de totale energie