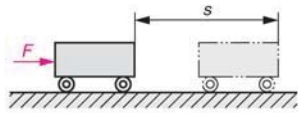
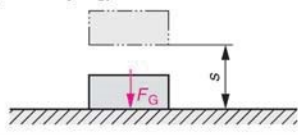
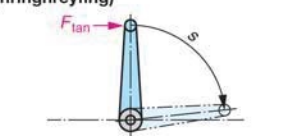
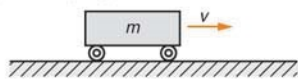
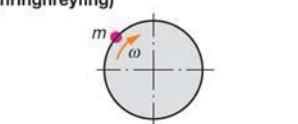
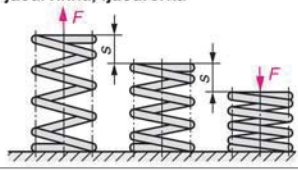
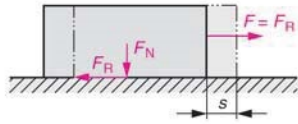
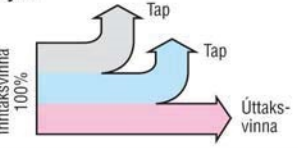


Vinna, orka <i>work, energy</i>		
<p>Vinna, orka (almennt)</p> 	$W = F \cdot s$ $E = F \cdot s$ $F = \frac{W}{s} \quad s = \frac{W}{F}$ <p>1 N · 1 m = 1 Nm = 1 J = 1 Ws</p>	<p>W : Vinna E : Orka F : Kraftur s : Vegalengd</p>
<p>Lyftvinna, stöðuorka (bein hreyfing)</p> 	$W_H = F_G \cdot s$ $E_{st.} = F_G \cdot s$ $F_G = m \cdot g$ <p>Staðfallhröðun $g_n = 9,80665 \frac{m}{s^2}$</p>	<p>W_H : Lyftvinna E_{st.} : Stöðuorka F_G : Þyngd s : Vegalengd m : Massi g : Fallhröðun</p>
<p>Snúningsvinna, snúningsorka (hringhreyfing)</p> 	$W_r = F_{tan} \cdot s$ $E_r = F_{tan} \cdot s$ $F_{tan} = \frac{W_r}{s} \quad s = \frac{W_r}{F_{tan}}$	<p>W_r : Snúningsvinna E_r : Snúningsorka F_{tan} : Snertilkraftur s : Vegalengd</p>
<p>Hröðunarvinna, hreyfiorka (bein hreyfing)</p> 	$W_B = \frac{m}{2} \cdot v^2$ $E_{hr.} = \frac{m}{2} \cdot v^2$	<p>W_B : Hröðunarvinna E_{hr.} : Hreyfiorka m : Massi v : Hraði</p>
<p>Hröðunarvinna, hreyfiorka (hringhreyfing)</p> 	$W_B = \frac{J}{2} \cdot \omega^2$ $E_{hr.} = \frac{J}{2} \cdot \omega^2$	<p>W_B : Hröðunarvinna E_{hr.} : Hreyfiorka J : Massavægi ω : Hornhraði</p>
<p>Fjaðurvinnna, fjaðurorka</p> 	$W_F = \frac{R}{2} \cdot s^2$ $E_s = \frac{R}{2} \cdot s^2$ $R = \frac{F}{s}$ $s = \sqrt{\frac{2 \cdot W_F}{R}}$ $s = \frac{F}{R}$	<p>W_F : Fjaðurvinnna E_s : Fjaðurorka F : Fjaðurkraftur R : Fjaðurstuðull s : Fjæðrunarlengd</p>
<p>Viðnámsvinna, varmi</p> 	$W_R = F_R \cdot s$ $Q = F_R \cdot s$ $F_R = \mu \cdot F_N$ <p>sjá viðnámsstuðla síðu 31</p>	<p>W_R : Viðnámsvinna Q : Varmi F : Kraftur F_R : Viðnámskraftur F_N : Þverkraftur s : Vegalengd μ : Viðnámsstuðull</p>
<p>Nýtni</p> 	$\eta = \frac{W_{útt.}}{W_{innt.}} < 1$ $\eta = \eta_1 \cdot \eta_2 \cdot \eta_3 \cdot \dots$ $W_{útt.} = \eta \cdot W_{innt.} \quad W_{innt.} = \frac{W_{útt.}}{\eta}$	<p>η : Nýtni η₁ : Hlutanýtni W_{útt.} : Úttaksvinna W_{innt.} : Inntaksvinna</p>