**Physics, motion**

t1, t2, dt – times

s1, s2, dS – distances

v1, v2, v, dv – speeds

h – height

a – acceleration

m – mass

f – force

p – gravity

e1, e2, de – energies

w – power

\*\*\*\*\*\*\* Formulas

 dt=t2-t1

 ds=s2-s1

 dv=v2-v1

 v1=s/t1

 v2=s/t2

 v=(v2+v1)/2

 ds=v\*dt (in the SI s=v\*t)

 f=a\*m

 p=9.8\*m [kg]=1000\*[t]

 de=e2-e1 [min]=60\*[h]

 e1=m\*v1^2/2 [sek]=60\*[min]

 e2=m\*v2^2/2 t=60\*[min]

 de=f\*ds [km/h]=[km]/[h]

 de=p\*h s=1000\*[km]

 w=de/dt [m]=1000\*[km]