#1-Object at rest stays at rest
Object in motion keeps moving in a straight line until acted
upon by an external force
EF=0 a=0

 $\#2-\alpha = \text{Fret}/m$ $\Sigma \vec{F} = m\vec{\alpha}$

#3- Every action has equal and opposite reaction
Fz=-F.
Different objects

Weight w=mg

F=ma
I newton N=1kg·1 m/s² S1
Idyne=1g·1cm/s² cgs
I 1b=1slug·1ft/s² conventional
I poundal=1b·1ft/s²