

FORMULE FIZICĂ

CLASA 10^o - A

1. Greutatea - notată \vec{G}

• Formula: $\vec{G} = m \cdot \vec{g}$, unde $G \rightarrow$ greutatea, m - masă
 $\vec{g} \rightarrow$ accelerația gravitațională

• Unități de măsură: $[\vec{G}]_{S.I.} = N$; $[m]_{S.I.} = kg$; $[\vec{g}]_{S.I.} = m/s^2$
 $g = 9,8 m/s^2 \approx 10 m/s^2$

2. Forța de apăsare normală - notată $\vec{F}_{apăsare}$

• Formula: $\vec{N} = + \vec{F}_{apăsare}$, unde $\vec{N} \rightarrow$ normale

• Unitate de măsură: $[\vec{F}_{apăsare}]_{S.I.} = N$ (Newton)

3. Forța de frecare - notată \vec{F}_f

• Formula: $\vec{F}_f = \mu \cdot \vec{N}$, unde $\mu \rightarrow$ coeficient de frecare la alunecare

• Unitate de măsură: $[\vec{F}_f] = N$

ii. Legătura între cele trei forțe:

$$\begin{aligned} \vec{F}_{apăsare} &= G = m \cdot g \\ \vec{N} &= \vec{F}_{apăsare} \\ \vec{F}_f &= \mu \cdot N = \mu \cdot m \cdot g \end{aligned}$$

4. Forța elastică \rightarrow notată (\vec{F}_e)

• Formula: $\vec{F}_e = k \cdot \Delta l$, unde k - constantă elastică a resortului

Δl - deformarea absolută a resortului
 $\Delta l = l - l_0 = l_0 - l' \rightarrow$ lungimea resortului comprimat
lungimea resortului alungit lungimea resortului nedeformat

• Unitate de măsură: $[\vec{F}_e]_{S.I.} = N$; $[k]_{S.I.} = N/m$; $[\Delta l]_{S.I.} = m$

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