

$$a = \frac{\Delta V}{t} = \frac{m}{s^2}$$

**-NEENAKOMERNO GIBANJE:**

**-ENAKOMERNO POSPEŠENO GIBANJE:**  $a = \frac{\Delta V}{t} = \frac{V_k - V_o}{t}$  ,  $\bar{V} = \frac{V_o + V_k}{2}$

$$V_k = at + V_o \quad , \quad s = V_o t + \frac{at^2}{2}$$

**-PROSTI PAD:  $V_o = 0$  :**  $a = g$  ,  $g = 9.8 \text{ m/s}^2$   $g = \frac{V_k}{t}$  ,  $h = \frac{gt^2}{2} \Rightarrow t = \sqrt{\frac{2h}{g}}$

**-NAVPIČNI MET  $\uparrow$  ;  $V_k = 0$ ;**  $-g = -\frac{V_o}{t} \Rightarrow V_o = gt \Rightarrow t = \frac{V_o}{g}$  ,  $h = \frac{V_o^2}{2g}$

**-NAVPIČNI MET  $\downarrow$  :**  $g = \frac{V_k - V_o}{t} \Rightarrow V_k = V_o + gt$  ,  $h = V_o t + \frac{gt^2}{2}$

**-RAVNINSKO GIBANJE ;  $V^2 = V_{predmeta}^2 + V_{traka}^2$ ;**  $d = V_p \times t \Rightarrow t = \frac{d}{V_p}$  ,

$$s = Vt \times t \Rightarrow s = Vt \times \frac{d}{V_p}$$

**-VODORAVNI MET:**  $D = V_o \times t$  ,  $h = \frac{gt^2}{2} \Rightarrow t = \sqrt{\frac{2h}{g}}$  ,  $V = \sqrt{V_o^2 + (gt)^2}$