

Physics IX Cheat Sheet

by Ayesha Talib via cheatography.com/173447/cs/36442/

MOTION	
displacement	m
distance	m
speed	m/s
velocity	m/s
aceleration	m/s ²
speed (v) = s/t	

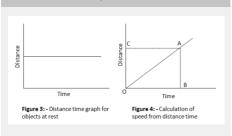
average speed = total s/total t velocity = d/t average velocity = total d/total t acceleration = v-u/t $v = 2\pi r/t$ v = u+at $s = ut+1/2at^2$

Distance-Time Graphs

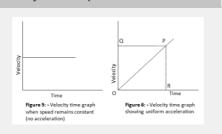
 $v^2 = u^2 + 2as$



Distance-Time Graphs



Velocity-Time Graphs



FORCE AND LAWS OF MOTION

inertia	kg
force	kgm/s ² or N
momentum	kgm/s
mass	kg
F = ma	
p = mv	

change in momentum = mv-mu m1v1+m2v2=(m1m2)v

(thrust) F = mgWeight-upthrust = m

W = m+upthrust $h = 1/2gt^2$ $v^2 = 2gh$ v = gt

GRAVITATION	
weight	N
mass	kg
pressure	Pa or N/m ²
acceleration due to gravity	m/s ²
density	g/cm ³
$F = GMm/d^2$	
$g = GM/R^2$	
W = mg	
Wm = 1/6 We	

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WORK AND ENERGY J J energy W power work = Fs Ep = mgh $Ek = 1/2mv^2$ power = W/t /// power = E/t average power = total E/total t

SOUND	
wavelength	m
frequency	Hz
time period	S
loudness	dB
intensity	W/m ²
Nu = 1/T	
$v = \lambda/T$	
v = Nuλ	

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