

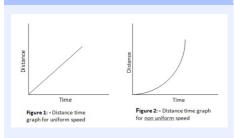
Physics IX Cheat Sheet

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

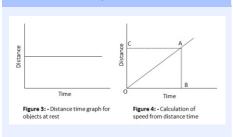
MOTION		
displacement	m	
distance	m	
speed	m/s	
velocity	m/s	
aceleration	m/s ²	
speed (v) = s/t		
average speed = total s/total t		

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

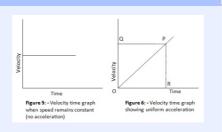
Distance-Time Graphs



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

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	

Weight-upthrust = m W = m+upthrust

Wm = 1/6 We(thrust) F = mg

 $h = 1/2gt^2$

 $v^2 = 2gh$

v = gt

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WORK AND ENERGY J work 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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