

# FCAT Reference Sheet

## Equations

Acceleration (a)	= $\frac{\text{change in velocity (m/s)}}{\text{time taken for this change (s)}}$	a = $\frac{v_f - v_i}{t}$
Average speed (v)	= $\frac{\text{distance}}{\text{time}}$	v = $\frac{d}{t}$
Density (D)	= $\frac{\text{mass (g)}}{\text{Volume (cm}^3\text{)}}$	D = $\frac{m}{V}$
Percent Efficiency (e)	= $\frac{\text{Work out (J)}}{\text{Work in (J)}} \times 100$	%e = $\frac{W_{out}}{W_{in}} \times 100$
Force (F)	= mass (kg) $\times$ acceleration (m/s <sup>2</sup> )	F = ma
Frequency (f)	= $\frac{\text{number of events (waves)}}{\text{time (s)}}$	f = $\frac{n \text{ of events}}{t}$
Momentum (p)	= mass (kg) $\times$ velocity (m/s)	p = mv
Pressure (P)	= $\frac{\text{Force (N)}}{\text{area (m}^2\text{)}}$	P = $\frac{F}{A}$
Wavelength ( $\lambda$ )	= $\frac{\text{velocity (m/s)}}{\text{frequency (Hz)}}$	$\lambda$ = $\frac{v}{f}$
Work (W)	= Force (N) $\times$ distance (m)	W = Fd

### — Units of Measure —

m = meter	g = gram	s = second
cm = centimeter	kg = kilogram	Hz = hertz (waves per second)
J = joule (newton-meter)		
N = newton (kilogram-meter per second squared)		
1 Astronomical Unit (AU) = distance between Earth and the Sun (approximately 150 million kilometers)		

# Fcat Biology Reference Sheet

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and useful reference even after the exam for basic biology concepts Author Bio Dr Paul Sanghera an educator scientist technologist and an entrepreneur has a diverse background in multiple fields including physics chemistry biology computer science and math He holds a Master degree in Computer Science from Cornell University a Ph D in Physics from Carleton University and a B Sc with triple major physics chemistry and math He has taught science and technology courses all across the world including San Jose State University and Brooks College Dr Sanghera has been involved in educational programs and research projects in biotechnology and nanotechnology He has authored and co authored more than 100 research papers published in well reputed European and American research journals As a technology manager Dr Sanghera has been at the ground floor of several technology startups He is the author of several best selling books in the fields of science technology and project management He lives in Silicon Valley California where he currently serves as Assistant Professor at California Institute of Nanotechnology Reference Material for Use with Biology Study Sheets Edwin Franklin Sanders,1938

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