

Chapter 1 – 6: Prefixes, Units, and Greek Letters

tera (T) = 10^{12}	kilo (k) = 10^3	micro (μ) = 10^{-6}
giga (G) = 10^9	centi (c) = 10^{-2}	nano (n) = 10^{-9}
mega (M) = 10^6	milli (m) = 10^{-3}	pico (p) = 10^{-12}

	(SI) MKS	CGS	US Customary Units
Length (Displacement, distance)	m (= meter)	cm	ft (= foot)
Mass	kg	g (= gram)	slug $\left(= \frac{\text{lb}\cdot\text{s}^2}{\text{ft}} \right)$
Time	sec or s (= second)	s	s
Velocity	$\frac{\text{m}}{\text{s}}$	$\frac{\text{cm}}{\text{s}}$	$\frac{\text{ft}}{\text{s}}$
Acceleration	$\frac{\text{m}}{\text{s}^2}$	$\frac{\text{cm}}{\text{s}^2}$	$\frac{\text{ft}}{\text{s}^2}$
Force (Weight, Tension)	N $\left(= \text{Newton} = \frac{\text{kg}\cdot\text{m}}{\text{s}^2} \right)$	dyne $\left(= \frac{\text{g}\cdot\text{cm}}{\text{s}^2} \right)$	lb $\left(= \text{pound} = \frac{\text{slug}\cdot\text{ft}}{\text{s}^2} \right)$
Coefficient of friction	None	None	None
k = Spring constant (Force constant)	$\frac{\text{N}}{\text{m}}$	$\frac{\text{dyne}}{\text{cm}}$	$\frac{\text{lb}}{\text{ft}}$

α A Alpha β B Beta γ Γ Gamma δ Δ Delta ε E Epsilon ζ Z Zeta	η H Eta θ Θ Theta ι I Iota κ K Kappa λ Λ Lambda μ M Mu	ν N Nu ξ Ξ Xi \omicron O Omicron π Π Pi ρ P Rho σ Σ Sigma	τ T Tau υ Y Upsilon ϕ Φ Phi χ X Chi ψ Ψ Psi ω Ω Omega
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