Some physical quantities and their dimensions
M = mass, L = length, T = time, Θ = temperature, Q = charge

Quantity	Symbol	Dimension
acceleration	a	$L\,T^{-2}$
angular velocity	ω	T^{-1}
area	A	L^2
area moment of inertia	I	L^4
bending modulus	κ, EI	$M\,L^3\,T^{-2}$
Boltzmann constant	k_B	$M\,L^2\,T^{-2}\,\Theta^{-1}$
charge	Q	Q
chemical potential	μ	$M\,L^2\,T^{-2}$
electric current	I	$T^{-1}\,Q$
density	ρ	$M\,L^{-3}$
diffusivity	D	$L^2\,T^{-1}$
elastic (Young's) modulus	E, G, Y	$M\,L^{-1}\,T^{-2}$
electric field	$\mathbf{E}$	$M\,L\,T^{-2}\,Q^{-1}$
energy; free energy; potential; work	E; F, G; U, V; W	$M\,L^2\,T^{-2}$
entropy	S	$M\,L^2\,T^{-2}$
force	F, f	$M\,L\,T^{-2}$
gravitational constant	g	$L\,T^{-2}$
kinematic viscosity	ν	$L^2\,T^{-1}$
length; coordinate	a, ℓ, L, x, y, z, r, etc.	L
magnetic dipole moment	$\mathbf{m}$	$L^2\,T^{-1}\,Q$
magnetic field	$\mathbf{B}$	$M\,T^{-1}\,Q^{-1}$
mass	m	M
moment of inertia	I	$M\,L^2$
momentum (angular)	L	$M\,L^2\,T^{-1}$
momentum (linear)	p	$M\,L\,T^{-1}$
power	P	$M\,L^2\,T^{-3}$
pressure; stress	p; σ	$M\,L^{-1}\,T^{-2}$
surface tension	γ	$M\,T^{-2}$
temperature	T	Θ
tension	T	$M\,T^{-2}$
time	t	T
torque	τ	$M\,L^2\,T^{-2}$
velocity	v, u, U	$L\,T^{-1}$
viscosity	η	$M\,L^{-1}\,T^{-1}$
volume	V	L^3