θ	Angle	rad	
ω	Angular speed	$rad\ s^{-1}$	
F_c	Centripetal force	N	$\left(m\frac{v^2}{r}\right.$ or $\left.mr\omega^2\right)$
a	Acceleration	ms^{-2}	
α	Angular acceleration	$(rad\ s^{-2})$	
t	Time	s	
Γ	Torque	Nm	
N	Normal reaction force	N	
R	Radius of a sphere / loop	m	
I	Moment of inertia	kgm^2	(Σmr^2)
E_K	Kinetic energy	J	
s	Position	m	
v	Linear velocity	ms^{-1}	
M	Mass of whole body	kg	
W	Work done	J	kg
P	Power	W	
p	Linear momentum	$kgms^{-1}$	
L	Angular momentum	kgm^2s^{-1}	

Rotational equations	Equivalent translational equation.
$\omega = \frac{\theta}{t}$	$v = \frac{s}{t}$
$\alpha = \frac{\Delta\omega}{\Delta t}$	$a = \frac{v-u}{t}$
$\theta = \omega_i t + \frac{1}{2}\alpha t^2$	$s = ut + \frac{1}{2}at^2$
$\theta = \frac{1}{2}(\omega_i + \omega_f)t$	$s = \frac{1}{2}(u+v)t$
$E_K = \frac{1}{2} I \omega^2$	$E_K = \frac{1}{2} m v^2$
$\omega_f = \omega_i + \alpha t$	$v = u + at$
$\omega_f^2 = \omega_i^2 + 2\alpha\theta$	$v^2 = u^2 + 2as$
$\Gamma = FR\sin\theta$	F
α	$a = \alpha r$
ω	$v = \omega r$
θ	$s = \theta r$
$I = \Sigma m r^2$	M
$E_T = \frac{1}{2} I\omega^2 + \frac{1}{2} Mv^2 + Mgh$	$E_T = \frac{1}{2} Mv^2 + Mgh$
$\Gamma = I\alpha$	$F = ma$
$W = \Gamma\Delta\theta$	$W = Fs\cos\theta$
$P = \Gamma\omega$	$P = Fv$
$L = I\omega$	$p = m_i v$