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AP Physics Cheat Sheet by qwet11 via cheatography.com/122543/cs/22776/

Rotational Motion		
τ_net= Iα	$\tau = r F sin \theta$	$\tau = r F$
Linear to Rotational Conversions		
$x = r\theta$	v=rω	a=ra
Rotational Kinematics		
$\Delta\theta = \omega it + \frac{1}{2}\alpha t^2$	$\omega = \omega i + \alpha t$	$\omega^{2} = \omega i^{2} + 2\alpha \Delta \theta$
Rotational Momentum		
$L=I\omega$	$K = \frac{1}{2}I\omega^2$	$\Delta L = \tau \Delta t$
Momentum (Linear)		
When Momentum is Conversed:	∑pi = ∑pf	
p = mv	$\Delta p = F\Delta t \text{ or } J = F\Delta t$	pf = pi + J
Types of Collisions		
Elastic Collision	KE conserved & momentum conserved	Bounce perfectly off each other
Inelastic Collision	KE lost & momentum conserved	Travel in same direction at different speeds
Perfectly Inelastic Collision	Greatest KE lost & momentum conserved	Objects coupled and travel in same direction

By qwet11

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