	#	AP Physics 1
		Date
Rotat	ional Inertia Constants	
Introduction : In a paragraph, a) discuss: the rolling object c) Rotational inertia - define and e ramp d) The typical general formula for many rotation	explain what 2 factors affect it, how it affe	
Purpose: To experimentally detendent pipe, and cylinder.	rmine the moment of inertia	constants for a sphere,
Materials		(2 pts)
Procedure:(3 pts)		
1		
2		
3		
4.		

Pamp Angle Clinemater	nertia Constants from the Acceleration
Ramp Angle - Clinometer	Ramp Angle - Trigonometry (4 pts)
General Equation $K =$	(6 pts)
General Equation K –	(σ μες)
Culinday (=)	
Cylinder (5 pts)	
Sphere (5 pts)	
<u>Pipe</u> (5 pts)	

\mathcal{T}_{net} = F_{net} =								
<u>Pata</u> (45 pts)								
	Accepted							
Object	Rotational Inertia Formula	a (m/s²)	Experimental Constant (k)	Actual Constant	Perce Erro			
Cylinder								
Sphere								
Pipe								
nclusion			I that determine it, how it affe					
			s. Discuss sources of error. (iown a ramp			