Phy 4A 11/9				
Wednesday, November 9, 2016 10:02 AM				
Goals for the Lecture:				
	d 2-D collisions), problems invo	lying both		
	nter of mass, work, and energy			
T.				
Power	P = time	unids I	_ W	
	1 - time	unids J	<u></u>	
			watt	
			_ 1 1	
Quervions;		.nslational	Rotational	
		notion	Motion	
Ь .	ematics;			
Kin	emat(c);	X	Θ	
	710/22/10	VEAX	ω = 100 100	
	Position Valocity acceleration	a = & y		
		act		
	equations	ve = v. + at	w = 5. + x +	
				12
	×	t = X + V; 1 + 2 ax2	Of = 0. + w. + + 1 0	(1)
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Nac	ton's Laws			
(420	Inertia:	W	I = mr torque	for a pt. object
			Torque torque	
	what changes moto			
	2 nd Lau:	EF = Ma	こと= エズ	
T				
Σ.	nergy Kinetra Energy	· V my	KR = 1 Iw	<u> </u>
	Kinetec Inlugi) - \ \ - \ z	(, b , 5	
1V	Iomentum:	P=MV	I = I w	
Rotation			×	
1,20	The state of the s	7 5	×	
		6	Vad	
	ro	d ()	rad	













