	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Week 1	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan
	No School	No School					
					Vectors and Relative		
			Introduction;		Motion (Analytic +		
Class Topic			Housekeeping		Computational)		
					Pre-Class homework		
Core Idea(s)			N/A		1: due at 12:00pm		
			Marshmallow				
			Challenge;				
			Introductory				
Activity			Assessment		Project 1: Toy Navy		
Week 2	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan
		Holiday					
		,			Iteractive Prediction		
			Constant Force - 1		of Motion - 2D		
			Dimension & 2		Kinematics + Drag		
Class Topic			Dimension (Analytic)		(Computational)		
			Forces cause change		Forces cause change		
Core Idea(s)			in momentum		in momentum		
			Project 2: Escape		Project 2: Escape		
		Pre-class homework 2:			from Ice State		
Activity	1: due at 8:00pm	due at 8:00pm	McMurdo: Parts A & B		McMurdo: Part C		
Week 3	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan
			Predicting Motion with		Predicting Motion with		
			Non-constant forces -		Non-constant forces -		
			Gravitation		Gravitation		
Class Topic			(Analytical)		(Computational)		
			Forces cause change		Forces cause change		
Core Idea(s)			in momentum		in momentum		
	Post-class homework	Pre-class homework 3:	Project 3:		Project 3:		
Activity	2: due at 8:00pm	due at 8:00pm	Geosynchronus Orbit		Geosynchronus Orbit		
-						( Fab	7 Fab
Week 4	1-Feb	Z-reb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb
			D				
			Predicting Motion with Non-constant forces -				
Class Topic			Springs (Analytic)		Exam 1		
Ciuss Topic			Forces cause change		Forces cause change		
Core Idea(s)			in momentum		in momentum		
core idea(s)			Project 4: Pinball		in monicircum		
	Post-class homework		Wizard Designer: Part		In-class Individual &		
Activity	3: due at 8:00pm	due at 8:00pm	A		Collaborative Exam		
ACCIVICY	J. due de o.oopiil	due de 0.00pm	Α		Cottaborative Exam		

Week 5	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb
		7 1 02	10.102		12.102	70 7 00	
			Ball and spring model;				
			Tension and				
Class Topic			Compression		Friction		
			Atomic interactions		Atomic interactions		
Core Idea(s)			cause macroscopic		cause macroscopic		
	Post-class homework	Pre-class homework 5:	Drainet E. Fenna		Drainet E. Fasana		
Activity	4: due at 8:00pm		from Korath - Part A		Project 5: Escape from Korath - Part B		
						20 E-k	24 5-1
Week 6	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb
			Multinantialanna				
			Multiparticle systems;		C		
Class Topic			Conservation of linear momentum (Analytic)		Curving Motion		
Cluss Topic			Atomic interactions		(Analytic)		
			cause macroscopic				
			phenomenon; Forces				
			cause change in		Forces cause change		
Core Idea(s)			momentum		in momentum		
, ,							
		Pre-class homework 6:	Project 6a: CSI East		Project 6b: Six Flags		
Activity	5: due at 8:00pm	due at 8:00pm	Lansing		over East Lansing		
Week 7	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb
			Energy Conservation;				
			Work by Constant		Energy Conservation;		
			Forces; Single Particle		total particle energy;		
			Systems: Work-KE		Multiparitcle systems:		
Class Topic			Theorem		Change of identity		
			F		F		
			Forces cause change		Forces cause change		
Core Idea(s)			in momentum; Energy is conserved		in momentum; Energy is conserved		
core idea(s)			Project 7a and 7b:		Project 7c: Purveyors		
	Post-class homework	Pre-class homework 7:			of the misplaced		
Activity	6: due at 8:00pm	due at 8:00pm	misplaced crate		crate		
,	or due de oroopiii	add de otoopin	p.tacca crace		0. 4.0		

Week 8	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar
Week o	I-Mai	Z-Mai	3-Mai	4-1/\d1	J-Mai	0-Mai	/ -IVId1
			Multiparticle systems;				
			Potential Energy and				
			Work; Local				
Class Topic			Gravitational PE		Exam 2		
ciuss ropic			Forces cause change		LXUIII Z		
			in momentum; Energy				
Core Idea(s)			is conserved				
20,0,000(0)			Project 8: Breakneck -				
	Post-class homework	Pre-class homework 8:			In-class Individual &		
Activity	7: due at 8:00pm	due at 8:00pm	coaster at Michigan's		Collaborative Exam		
Week 9	8-Mar	9-Mar		11-Mar		13-Mar	14-Mar
Wall t	5 mar	Holiday	Holiday		Holiday	Holiday	117100
		Tiotiday	liotiday	liotiday	Tiotiday	Hottady	
Class Topic							
,							
Core Idea(s)							
, ,							
Activity							
Week 10	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar
					Multiparticle Systems		
			Multiparticle Systems		& Potential Energy;		
			& Potential Energy;		Newtonian		
			Newtonian		Gravitational PE &		
Class Topic			Gravitational PE		graphing PE		
Core Idea(s)			Energy is conserved		Energy is conserved		
00.0.1202(0)			Project 9: Launching a		Project 9: Launching a		
	Post-class homework	Pre-class homework 9:			communications		
Activity	8: due at 8:00pm	due at 8:00pm	probe: Part A		probe: Part B		
Week 11	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar
	+						
					Multiparticle systems		
			Multiparticle systems		& Thermal Energy;		
			& Potential Energy;		Heat Exchange and		
Class Topic			Spring PE		Dissipation		
,					Forces cause change		
	1				in momentum; Energy		
Core Idea(s)			Energy is conserved		is conserved		
Core Idea(s)			Energy is conserved				
Core Idea(s)	Post-class homework	Pre-class homework	Energy is conserved Project 10: Post-				

Week 12	29-Mar	30-Mar	31-Mar	1-Apr	2-Apr	3-Apr	4-Apr
			Multiparticle systems;				
			Rotational and		Multiparticle systems;		
			Vibrational Energy;		Real vs Point Particle		
Class Topic			Center of mass		Systems		
			Forces cause change		Forces cause change		
			in momentum; Energy		in momentum; Energy		
Core Idea(s)			is conserved		is conserved		
	D		Project 11:		Project 11:		
4 -42 -24 -		Pre-class homework	Engineering a Movie		Engineering a Movie		
Activity	10: due at 8:00pm	11: due at 8:00pm	Stunt: Part A		Stunt: Part B		
Week 13	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr
			Collisions;				
			conservation of				
C1 T			energy and		Exam 3		
Class Topic			momentum Forces cause change		Exam 3		
			in momentum; Energy				
Core Idea(s)			is conserved				
core idea(s)			is conserved				
	Post-class homework	Pre-class homework	Project 12: Saving a		In-class Individual &		
Activity	11: due at 8:00pm	12: due at 8:00pm	satellite		Collaborative Exam		
Week 14	12-Apr	13-Apr		15-Apr		17-Apr	18-Apr
Week 11	127,51	15 7.51	7.7.4	15 7.51	10 745.		10 7.5.
			Conservation of		Conservation of		
Class Topic			angular momentum		angular momentum		
,			J		J		
			Torques cause		Torques cause		
			changes in angular		changes in angular		
			momentum -		momentum -		
Core Idea(s)			Analytical		Computational		
		Pre-class homework	Project 13a: You Spin		Project 13b: To Be		
Activity	12: due at 8:00pm	13: due at 8:00pm	Me Right Round		Named		

Week 15	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr
	·	·	·	·	·	·	·
					Applying conservation		
			Applying conservation		theorems (spillover);		
Class Topic			theoreoms		post-assessment		
			_		_		
			Forces cause change		Forces cause change		
			in momentum; Energy		in momentum; Energy		
			is conserved; Torques		is conserved; Torques		
			cause changes in		cause changes in		
Core Idea(s)			angular momentum		angular momentum		
			Project 14: Showdown		Project 14: Showdown		
			at the Boar Tiger		at the Boar Tiger		Post-class homework
Activity			Corral		Corral		13: due at 8:00pm
Week 16	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	1-May	2-May
			Applying conservation		Applying conservation		
Class Topic			theoreoms		theorems		
			Forces cause change		Forces cause change		
			in momentum; Energy		in momentum; Energy		
			is conserved; Torques		is conserved; Torques		
			cause changes in		cause changes in		
Core Idea(s)			angular momentum		angular momentum		
			Project 15: Choose		Project 15: Choose		
			your own adventure		your own adventure		
Activity			part 1		part 2		
Week 17	3-May	4-May	5-May	6-May	7-May	8-May	9-May
Class Topic				Final			
Core Idea(s)							
				In-class Individual &			
Activity				Collaborative Exam			