	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Week 1	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan
	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	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan
		Holiday					
					Iteractive Prediction		
			Constant Force - 1		of Motion - 2D		
a			Dimension & 2		Kinematics + Drag		
Class Topic			Dimension (Analytic)		(Computational)		
Cara Idaa(a)			Forces cause change		Forces cause change		
Core Idea(s)			in momentum Project 2: Escape		in momentum Project 2: Escape		
	Post-class homework	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	24-Jan	25-Jan		27-Jan		29-Jan	30-Jan
Week 3	Z+ Juli	25 3411	20 3411	27 3411	20 3411	27 3απ	J0 Juli
			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		
, ,							
		Pre-class homework 3:			Project 3:		
Activity	2: due at 8:00pm	due at 8:00pm	Geosynchronus Orbit		Geosynchronus Orbit		
Week 4	31-Jan	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb
			Predicting Motion with		Ball and spring model;		
			Non-constant forces -		Tension and		
Class Topic			Springs (Analytic)		Compression		
Cara Idaa(a)			Forces cause change		Atomic interactions		
Core Idea(s)			in momentum Project 4: Pinball		cause macroscopic		
	Post-class homework		Wizard Designer: Part		Project 4: Part B:		
Activity	3: due at 8:00pm	due at 8:00pm	A Designer. Part		Escape from Korath		
ACCIVILY	3. dde at 6.00pm	due at 6.00pm	A		Lacape Holli Koratti		

Week 5	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb
,,,com, c	7.00	0.00	7 . 0.0	10.100		.2 : 65	.0.00
			Predicting Motion with		Ball and spring model;		
			Non-constant forces -		Tension and		
Class Topic			Springs (Analytic)	Exam 1	Compression		
			Forces cause change	Group and Individual	Atomic interactions		
Core Idea(s)			in momentum	Exam	cause macroscopic		
	Post-class homework	Pre-class homework 5:			Project 5: Part B: CSI		
Activity	4: due at 8:00pm	due at 8:00pm	Escape from Korath	6:00pm - 8:30pm	East Lansing		
Week 6	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb
					Multiparticle systems;		
					Conservation of linear		
Class Topic			Friction		momentum (Analytic)		
			Atomic interactions		Atomic interactions		
			cause macroscopic		cause macroscopic		
			phenomenon; Forces		phenomenon; Forces		
			cause change in		cause change in		
Core Idea(s)			momentum		momentum		
			Project 6: Part A: Six		Project 6: Part B: Six		
	Post-class homework	Pre-class homework 6:			Flags over East		
Activity	5: due at 8:00pm	due at 8:00pm	Lansing		Lansing		
Week 7	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb
			Curving Motion		Curving Motion		
Class Topic			(Analytic)		(Analytic)		
			Forces cause change		Forces cause change		
Core Idea(s)			Forces cause change in momentum		Forces cause change in momentum		
core idea(s)			Project 7: Part A: The		Project 7B: Breakneck		
	Post-class homework		Leaning Tower of P-		The new roller-		
Activity	6: due at 8:00pm	due at 8:00pm	Cubed		coaster at Michigan		
ACCIVILY	o. due at o.oopiii	duc at 0.00pm	Cubca	I	coaster at Michigan		

Week 8	28-Feb	29-Feb	1-Mar	. 2-Mar	3-Mar	4-Mar	5-Mar
Week o	20-Feb	29-гер	I-Mai	Z-Mai	3-Mai	4-Mai	J-Mai
			Francy Consequations		Multiportial o gratomas		
			Energy Conservation;		Multiparticle systems;		
			Work by Constant		Potential Energy and		
<i>a.</i>			Forces; Single Particle		Work; Local		
Class Topic			Systems: Work-KE		Gravitational PE		
			Forces cause change		Forces cause change		
			in momentum; Energy		in momentum; Energy		
Core Idea(s)			is conserved		is conserved		
			Project 8: Part A:		Project 8b: Launching		
	Post-class homework	Pre-class homework 8:			a communications		
Activity	7: due at 8:00pm	due at 8:00pm	communications		probe		
Week 9	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar
		Holiday	Holiday	Holiday	Holiday	Holiday	
Class Topic							
Core Idea(s)							
Activity							
Week 10	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar
WEEK 10	13 Mai	14 Mai	13 Mai	10 Mai	17 Mai	10 mai	17 /1101
					Multiparticle Systems		
			Multiparticle Cystoms				
			Multiparticle Systems & Potential Energy;		& Potential Energy; Gravitational PE &		
			Newtonian				
Class Tanis				F., am. 2	graphing PE		
Class Topic			Gravitational PE	Exam 2	(computational)		
Core Idea(s)			Energy is conserved	Exam	Energy is conserved		
	Post-class homework		Project 9: Part A: Post		Project 9: Part B: Post		
Activity	8: due at 8:00pm	due at 8:00pm	Apocalypse Now	6:00pm - 8:30pm	Apocalypse Now		
Week 11	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar
					Multiparticle systems		
			Multiparticle systems		& Thermal Energy;		
			& Potential Energy;		Heat Exchange and		
Class Topic			Spring PE		Dissipation		
•					Forces cause change		
					in momentum; Energy		
Core Idea(s)			Energy is conserved		is conserved		
(-/			Project 10: Part A:		Project 10: Part B:		
	Post-class homework		Engineering a movie		Engineering a movie		
Activity	9: due at 8:00pm	10: due at 8:00pm	stunt		stunt		
	dad at broopin	add at oroopin					

Week 12	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	1-Apr	2-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		
	Deat aleas have some	Pre-class homework	Dundant 44. Dant A.		Dundant 44. Dant D.		
A -42: -24: -	Post-class homework 10: due at 8:00pm	11: due at 8:00pm	Project 11: Part A:		Project 11: Part B:		
Activity		•	Saving a probe		Saving a space station	•	0.1
Week 13	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr
Class Topic			Torque		Torque		
Class Topic			Forces cause change		Forces cause change		
			in momentum; Energy		in momentum; Energy		
Core Idea(s)			is conserved		is conserved		
core raca(s)			is conserved		is conserved		
	Post-class homework	Pre-class homework	Project 12: Part A:		Project 12: Part B:		
Activity	11: due at 8:00pm	12: due at 8:00pm	Over the top		Over the top		
Week 14	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr
			Collisions;		Collisions;		
Class Topic			conservation of	Exam 3	conservation of		
•							
			Forces cause change		Forces cause change		
			in momentum; Energy		in momentum; Energy		
Core Idea(s)			is conserved	Exam	is conserved		
					Project 13: You Spin		
		Pre-class homework	Project 13: Part A: You		me right round -		
Activity	12: due at 8:00pm	13: due at 8:00pm	Spin me right round.	6:00pm - 8:30pm	computational		

Week 15	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr
			Conservation of		Conservation of		
Class Topic			angular momentum		angular momentum		
		1	Torques cause		Torques cause		
		1	changes in angular		changes in angular		
			momentum -		momentum -		
Core Idea(s)			Analytical		Analytical		
			Project 14: Showdown		Project 14: Showdown		
	Post-class homework		at the Boar Tiger		at the Boar Tiger		
Activity	13: due at 8:00pm		Corral		Corral		
Week 16	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
					Applying conservation		
			Applying conservation		theorems (spillover);		
Class Topic			theoreoms		post-assessment		
		1	Forces cause change		Forces cause change		
		1	in momentum; Energy		in momentum; Energy		
		1	is conserved; Torques		is conserved; Torques		
		1	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:		Post-class homework
Activity	4 11		design		solution		14: due at 12:00am
Week 17	1-May	2-May	3-May	4-May	5-May	6-May	7-May
		Final					
Class Tanis		Group and Individual					
Class Topic		Exam					
Core Idea(s)		6:00pm - 8:30pm					
Activity							