CLASS NAME--G PERIOD 2023-2024

Fi	irst Quarter, 2023-2024				
S U N	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
-					
_	8/21	8/22	8/23	8/24	8/25
	BIG NOTE: With the		First Day of School	L-day 1	CLASS:
	exception of the problems		(special schedule)	CLASS:1.)	TEST 1 (Chapter 1-d
	quoted in the Summer		LLASS:	during the first 6 day rotation	kinematics)
	Session material, ALL		1.) Shortened class. I assume	under normal circumstances	,
	PROBLEMS listed as		the email I sent last week	this would be your I -day	
	homework are located on		questions?	meeting	
	the class Website in files in		2.) why are you taking this class;	<u> </u>	
	the CLASS PDFs folder		what is this class good for; why do		
	associated with the chapters		universities like to see students		
	2 10 dags NOT refer to a		take physics?		
	3.19 does NOT refer to a		3.) do first day presentation"		
	toythook you have available		powerpoint		
	as a reference. If this isp't				
	dear talk to mell				
			HMWK:		HMWK
			1.) get ready for test on review		1.) breath deeply
			material from summer-		
			assignment		
	8/28	8/29	8/30	8/31	9/1
	CLASS:	Day 4	CLASS:	CLASS:	L-day 1
	0.) go over test;		1.) do Cart Lab (L-1) (acceleration	1.) talk briefly about formalized	CLASS:
	1.) scalars and vectors;		of cart)write-up due Tuesday	presentation of position, velocity	1.) In-class QuizSpeed
	vector addition and subtraction			in first few sections of Ch 4).	and uniform circular motion
	3.) polar notation:			2.) talk about exotic math	(show old school video):
	4.) unit vector notation;			(theoretical Calculus and the	3.) radial and tangential unit
	5.) converting from one to the			chain rule);	vectors;
	other			3.) introduce 2-d projectile	4.) relative velocity and
	6.) Book Sections: 2.1, 2.2, 2.3			motion with cannon problem;	accelerationgraphical analysis;
				4.) mention lab cover artwork if	5.) BOOK Sections: 4.4, 4.5 and 4.6
				5.) Book Sections: 4.1. 4.2 and	0
				4.3	
	HMWK:		HMWK:	HMWK:	HMWK:
	1.) in the Class pdfs folder,		1.) do Probs 3.23	1.) in Ch 4 (2-d Kinematics)	1.) do Probs 4.11, 4.15, 4.17,
	in that folder you will find a file		2.) complete lab write-up if not finished in class (this will be due	folder, open the Series 4 nmwk	4.19, 4.21 and 4.23;
	titled "Hmwk Prob3-Series		next Tuesday)	4.7 and 4.9	
	(vectors)"open it and do Probs		OPTIONAL:		
	3.1, 3.3, 3.13 and 3.15;		3.) look at the Solutions to		
	2.) download LabCart Lab (L-		problems 3.19 and 3.41 (you		
	1);		should have the skill to do 3.19		
	OPTIONAL:		I'm just not making you take the		
	3.) if confused about graphical		time to do itthese used to be		
	vector addition and subtraction,		assigned but to give you more		
	www.youtube.com/watch?y=rzi-		made it something you actually		
	dz1d0D0		have to do)		
	4.) if confused about polar				
	notation, watch				
	www.youtube.com/watch?v=Ni2				
	yg9TZtFQ				
	5.) If confused about unit vector				
	www.youtube.com/watch?y=HO				
	akMai6nMO				
	a anna an				
	9/4	9/5	9/6	9/7	9/8

	CLASS:	CLASS:	Day 4	CLASS:
LABOR DAY	0.) collect labs:	1.) do run and shoot labsTo	, -	Test 2
	1.) continue with topics from	Catch a Ball:		IEST 2 (Ch's 3 and 4
HOLIDAY	previous day (finish relative	2.) show "monkey in tree"		vectors and 2-d kinematics)
	motion):	3.) quest speaker?		
	2.) possibly show motoGP video:	.,		
	3.) talk about run and shoot			
	labsTo Catch a Ball is tomorrow			
	(have students determine			
	velocity of ball):			
	3) possibly do 2-d Air Table Lab-			
	-determine radial and tangential			
	acceleration of point on the			
	curve			
	4.) set up monkey in tree:			
	5.) Book Sections: 4.4, 4.5 and			
	4.6			
	HMWK	HMWK		HMWK:
	1) do Probs 4 27 4 30 4 31	1) work on pre-test:		1.) relax
	and 4 32	2) first Chinotle night		,
	2) download I ABTo Catch a			
	Ball lab (1-3)			
9/11	9/12	9/13	9/14	9/15
1) go over test:	CLASS.	1) do NSL (Double Atwood	1) look at elementary problem	Day 4
2.) island series I AB	1.) lav out N.S.L	Machine) Lab (L-6): (due	(see ppts) of three blocks on	
(protractor and incline):	2.) talk about interial and non-	Wednesday)	tabletonlay out approach (if not	
3.) intro to Newton:	intertial frames of reference:	2.) talk about approach	already done):	
4.) massgravitational and	4.) talk about types of forces:		2.) talk about quick and dirty	
inertial:	5.) talk about freebody		approach if not alrady done:	
5.) N.F.L. and N.S.L.;	diagrams;		3.) try approach on incline plane;	
6.) Book Sections: 5.1,	6.) Book Sections: 6.5, 5.6 and		4.) try approach on Atwood	
6.2, 5.3 and 5.4	5.7		Machine;	
			5.) Book Section: 6.1	
HMWK:	НМШК:	HMWK:	HMWK:	
1.) do Probs 5.1, 5.3, 5.13,	1.) do Probs 5.24, 5.33 and	1.) write up LAB <i>N.S.L.(Incline)</i>	1.) Do Probs 5.28, 5.31 and 5.37	
5.20 (parts a, b and cdo by	5.35	Lab (L-) this lab will be due	OPTIONAL: 2.)	
inspection)	OPTIONAL:	Wednesday, 9/20	if you'd like to see a N.S.L.	
	2.) If you'd like to see a Newton's		problem with two accelerations,	
	Second Law formally		look at zpoly: 11 (N.S.L.'s	
	approached, look at ZPOIY: 8		problem with 2 accelerations) at	
	(N.S.L.'s formal approach on		www.youtube.com/watch?v=rojd	
	elevator problem) at		X82UKPg	
	VapoiG6D8			
9/18	9/19	9/20	9/21	9/22
CLASS:	CLASS:	L-day 1	CLASS:	CLASS:
0.) lab due Wednesday, 9/20	1.) talk about all forms of friction-	CLASS:	1.) for fun, superman bike rider	1.) do banked curve problem;
1.) mention "quick and dirty"	-use Logger Pro to show using a	00.) take ten minutes to finish lab	at	2.) up Finction iab; (start write-up in
approach with both Atwood	block and Force Transd (hmwk	write-up:	https://www.youtube.com/watch	ciass, uue a week nom muisudy)
problems;	on triction)	0.) MOB maneuver	?v=-7WCuNSNZCU	
2.) do climbing demo;	2.) penguin problem (review	1.) snow slides of "date" sliding	do banked curve problem;	
3.) do "pendulum inside car"	Trictionhow do you determine	over seat, and talk about non-	2.) do mini Friction lab;(start	
problem;	airectionblock on block	inertial frames of reference and	write-up in class, due a week	
5.) do friction tomorrowend	proviem);	centrifugati forces;	irom inursday)	
and block on block with nutries	2.) granu nnale video;	2.) reilerale that centripetal forces		
and block on block with pulley	3.) QUIZaragging a student;	are naturally accurring forces in a		
acc up incline; (forces on	4.) MOD Maneuver and	System		
complex array of masses);	5) Book Section: 5.9 and 6.2	s.) use pendulum to test		
0.)	5.) BOOK SECTION: 5.8 and 6.3	direction (note that this is part of		
		Prob 6 8)		
		4) car over hill:		
		5.) car when making a turn:		
		6.) car around a curve:		
		7.) set up banked curve problem		
		for next time;		
		8.) Book Section: 6.2		
	1	1		

HMWK:	HMWK:	HMWK:	HMWK:	HMWK:
1.) do Prob 5.39, 5.46 and 5.47	1.) do Probs 6.1 and 6.6; 2.) download and read Newton's Second LawFriction lab; OPTIONAL: 3.) this should probably be for tomorrow nightif you are still having trouble figuring out the "center seeking" centripetal direction, look at zPoly: 13 (defining axes in centripetal force problems) at www.youtube.com/watch?v=0kY TPQUwibE	1.) do Probs 6.9, 6.12 and 6.14; OPTIONAL: 2.) if you are still having trouble making sense of the direction of kinetic friction, look at zPoly: 12 (kinetic friction via a truck n box problem) at www.youtube.com/watch?v=AN6K wF6RxUQ	1.) write Prob 6.16 and 6.17	1.) write up <i>Friction</i> Lab (L-) this will be due a week from Friday (9/29);
9/25	9/26	9/27	9/28	9/29
Yom Kippur	Day 4	CLASS: 1.) start with airplane lab; 2.) maybe show oddball Newtons' Law video (guys in winter storm); 3.)do carnival lab with associated talk about when static frictional force not maximum; 4.) look at complex block-sliding- against-inside-inside-of-cylinder problem; 5.) look at Mr. White's flask problem; 6.) tell "car over hill" story ifnot already done (and if time permits)	CLASS: 1.) do pendulum problem; 2.) do turntable lab; 3.) review;	Test 3 (Newton's Laws)
		HMWK: 1.) you don't need to turn these in, but certainly look at them: do Probs 6.21 (this one is tricky and good reviewuse your head!), 6.23 and 6.42	HMWK: 1.) do pre-test and prepare for test on Friday	HMWK: ENJOY TRIPS WEEK
		2.) Chipotle night from 5-7 pm		
10/2	10/3	2.) Chipotle night from 5-7 pm 10/4	10/5	10/6
10/2 TRIPS WEEK:	10/3 TRIPS WEEK:	2.) Chipotle night from 5-7 pm 10/4 TRIPS WEEK: 10/11	10/5 TRIPS WEEK: 10/12	10/6 TRIPS WEEK:
10/2 TRIPS WEEK: 10/9	10/3 TRIPS WEEK: 10/10 L-day 1	2.) Chipotle night from 5-7 pm 10/4 TRIPS WEEK: 10/11 CLASS:	10/5 TRIPS WEEK: 10/12 CLASS:	10/6 TRIPS WEEK:
10/2 TRIPS WEEK: 10/9 FRANCIS WASS DAY	10/3 TRIPS WERK: 10/10 L-day 1 CLASS: 0.) go over test; 1.) island series LAB (energy); 2.) work by constant force; 3.) dot product; 4.) work done by variable forces; 5.) Book Sections: 7.1,5	2.) Chipotle night from 5-7 pm 10/4 TRIPS WEEK: 10/11 CLASS: 1.) note that EXTRA CREDIT will become available from Web site today and will be due Tuesday,10/24 2.) give time to do Summary for lab; 3.) derive work/energy theorem; 4.) work done by conservative forces, and potential energy functions; 5.) Book Sections: 7.3, 8.1 and 8.2 HMWK:	10/5 TRIPS WEEK: 10/12 CLASS: 1.) (a little time for sumary), then reiterate potential energy derivation, do "Gods must be crazy," 2.) relationship between potential energy functions and their associated conservative forces; 3.) energy diagrams and equilibrium of systems; 4.) Book Section: 8.2, 8.4	10/6 TRIPS WEEK: 10/13 Day 4
10/2 TRIPS WEEK:	10/3 TRIPS WEEK: 10/10 L-day 1 CLASS: 0.) go ver test; 1.) island series LAB (energy); 2.) work by constant force; 3.) dot product; 4.) work done by variable forces; 5.) Book Sections: 7.1,5 HMWK: 1.) do Probs 7.1, 7.2, 7.5,	2.) Chipotle night from 5-7 pm 10/4 TRIPS WEEK: 10/11 CLASS: 1.) note that EXTRA CREDIT will become available from Web site today and will be due Tuesday,10/24 2.) give time to do Summary for lab; 3.) derive work/energy theorem; 4.) work done by conservative forces, and potential energy functions; 5.) Book Sections: 7.3, 8.1 and 8.2 HMWK: 1.) do Probs 7.9, 7.14 and 7.31	10/5 TRIPS WEEK: 10/12 CLASS: 1.) (a little time for sumary), then reiterate potential energy derivation, do "Gods must be crazy," 2.) relationship between potential energy functions and their associated conservative forces; 3.) energy diagrams and equilibrium of systems; 4.) Book Section: 8.2, 8.4 HMWK: 1.) do Probs 7.32, 7.33, 7.35	10/6 TRIPS WEEK: 10/13 Day 4

CLASS: 1.) analysing models for non- isolated systems and isolated systems; 2.) derivation of modified conservation of energy thm; 3.) Book Section: 8.3 HMWK: 1.) do Probs 7.42, 7.43, 7.45, 7.49;	CLASS: 1.) do a few conservation of energy problems; 2.) show "objects tend to least energy states" demo (soap bubbles); 3.) do Conservation of Energy (Pendulum) lab (L-); HMWK: 1.) complete write-up of Conservation of Energy (Pendulum) Lab (L-) if not	L-day 1 CLASS: 1.) continue doing energy- consideration problems 2.) do the on-line survey for the end-of-quarter comment at https://forms.gle/HNcSxps5qfbW axjs6 HMWK: 1.) do Probs 7.47, 7.52, 8.2, 8.3, 8.5 and 8.7 2.) download LABConservation of	CLASS: 1.) do at least three conservation of energy problems, including the problem from hell; 2.) powerAP problem; 3.) if time, show "energy oscillating between vibration and torsion" demo; 4.) Book Section: 7.4 HMWK: 1.) do Probs 8.12, 8.14 and 8.18	PSAT TESTING (this is Day 1 of the rotation, even though the Upper School doesn't meet)
	finished in classdue Tuesday	Energy (Pendulum) Lab (L-)		
Day 4	L-DAY 1 CLASS: 1.) EXTRA CREDIT DUE 2.) bubbles? 3.) review	CLASS: TEST 4 (energy considerations)	10/26 end of first quarter: L-day 1 CLASS: 1.) do Island Series Lab (force to stop); 2.) talk about Newton's real approach to his second law; 3.) talk about center of mass and show how to calculate; 4.) talk about Impulse; 5.) Lecture L-1	FACULTY WRITING DAY (NO SCHOOL) (first quarter ends)
TONIGHT WILL BE A CHIPOTLE NIGHT FROM 5:00 TO 7:00 PM	HMWK: 1.) prepare for test	HMWK: 1.) relax	HMWK: 1.) download Impulse Lab (L- 12a); 2.) Probs 9.1, 9.4, 9.5, 9.6 and 9.11; XtraWrk: 3.) for fun, starting at the 1:30 minute mark, watch the collision video at www.youtube.com/watch?u9EqU1_DXUw and momentum preamble video (don't try to internalize all of thisjust enjoy the amusement) at www.youtube.com/watch?u=T9lehHxv-C8	

Second Quarter, 2023-2024				
S MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
d la				
n				
10/30	10/31	11/1	11/2	11/3
		Day 4		
1) go over testi	1) ack if student would	Day 4	1) talk about subtlation of	1) give a few hints about
1.) go over test,	1.) dSK II Student Would			1.) give a rew minus about
2.) have students do	prefer to be filt by big			previous lab (energy
Impulse Lab (L-12a)due	lineman moving slowly or		2.) do "boy catches ball"	conserved means ALL energy
next luesday);	small lineman moving fast		problem;	conservedmechanics energy
3.) Lecture L-2	talk about energy versus		3.) do rifle problemshow	conserved means KE
	momentum;		"Pirates" video;	conserved as U won't change
	2.) derive conseravation of		look at F vs t graphs;	through a collision);
	momentum relationship;		5.) do "bullet in block"	2.) take data for Ballistic
	criterion for cons of		problem;	Pendulum lab (L-); do
	energy and cons of mom;		6.) do "bullet at angle"	informal write-up in class
	4.) put spring loaded cart on		problem;	
	track against other cartis		7.) Lecture L-4	
	there momentumuncork		,	
	is there momentum?			
	5) throw ball in airwhere			
	is man conconvod?			
	a.) types of consions;			
	7.) Lecture L-3			
HMWK	HMWK		HMWK	HMWK
1) write up Impulse Lab (L	1 do Probe 0.18, 0.10 and		1) work on Impulse Lab (La	1 do Probe 0.27, 0.20 and
1.) white up impulse Lab (L-	0.22		1.) Work on impulse Lab (L^{-14}) due friday 11/10:	0.22
12d) (due flext Monday),	9.23,			2.) for fun look at video at
Allowik.	2) if you promit commission		2) if you'd like to one	2.) for full, look at video at
2.) TOOK at the two skaters	2.) If you aren't completely		2.) If you'd like to see	ision south html
Management and the impulse and	clear as to when you can use		another complicated cons. of	Isioncarts.ntmi
Momentum section at	cons of energy and when		momentum and energy	
serc.carleton.edu/student_videos/index.html	cons of mom, look at the		problem, look at zPoly: 20	
before the video starts,	fairly complicated problem		(block on block w spring) at	
determine the center of	at zPoly: 19 (cons. of mom		https://youtu.be/_vffPexYS4I	
mass of the two boys, then	example—cannon and			
notice where they end up by	spring) at			
the end of the video	https://youtu.be/uKfQhCOW-Eo			
11/6	11/7	11/8	11/9	11/10
L-day 1	CLASS:	CLASS:	Day 4	CLASS:
CLASS:	1.) talk about center of	TECTE		0.) go over test:
1) talk about glancing	mass problems (note that	IESI 3 (momentum)		1) quickly do island series
blows:	the integral calculation will			AB (rotational parameters)
2) some mathematical	not happon on this tost, but			co homowork doosn't go out
2.) Some mathematical	the technique will be needed			of events
nastness when energy and	the technique will be needed			or synch;
nomentum are conserved;	for something you will do in			2.) rotational kinematics;
3.) say something about	the rotation section;			3.) relationship between
center of mass (more	2.) mention "theoretical			rotational and translational
tomorrow);	nitty gritty";			paramters (at end go out and
4.) the ice dome, problem	3.) mention "center of			play crack the whip);
from hell and cannonball	mass" frame of reference;			4.) note that the homework
problem;	play face ball			will require some dimensional
45.) the astronaut game if				analysis and a lot of
we have time				extraneous math knowledge
6.) curved incline problem				(which I won't go over);
7.) explosion problem				5.) Book Sections: 10.1, 10.2
pendulum problem;				and 10.3
8.) Lecture L-5				
	1	1		

HMWK:	HMWK:	HMWK:		HMWK:
 1.) do Probs 9.36, 9.37,9.38, 9.40, 9.41 and 9.43; 2.) Chipotle night 5:00 - 7:00 pm OPTIONAL: 2.) if you'd like to see another complicated cons of momentum and energy problem, look at zPoly: 20 (block on block w spring) at https://youtu.be/_vffPexYS41 	1.) begin to perpare for test;	1.) relax		 1.) do Probs 10.3, 10.5, 10.7, 10.11, 2.) look at the solutions (but do not do unless you have the time) probs 10.13, 10.17 and 10.21 (these don't need to be turned in); OPTIONAL: 2.) if you want more on the bizarre minutia you need to be aware of concerning rotational motion, look at zPoly: 22 (rotational machinations) at http://youtu.be/92pLQ1TWREY
11/13	11/14	11/15	11/16	11/17
CLASS: 1.) calculating moment of inertia of discrete mass; 2.) calculating moment of interia of continuous distribution; 3.) end with minutia (fill in over next several periods velocity of wheel's point of contact; ang velocity same everywhere; can't tell difference between inst. pure rotation and rolling) 4.) Book Sections: 10.4 and 10.5	L-day 1 CLASS: 1.) talk about how direction of rotational vectors are defined; 2.) derive v = Rw and a = R(alpha) right at end of period, go out and play "crack the whip;" 3,) look ar "GEARS" site at https://ciechanow.ski/gears/ 4.) talk about cross products using wrench example; 5.) talk about rigid body problems and various ways to do torque calculations; 6.) Book Sections: 10.6, 10.7, 12.1 and 12.2	CLASS: 1.) introduced NSL problem with falling hinged beam with can attached and ball falling into it at right angle 2.) if time, finish rigid body problems (look at special chapter devoted to these problems); 3.) Book Sections: 12.1, 12.2, 10.4 and 10.5,	CLASS: 1.) do N.S.L. problems 5.) Book Sections: 10.6 and 10.7	Day 4
HMWK: 1.) do Probs 10.25, 10.29 and 10.31	HMWK: 1.) do Probs 10.35, 10.36, and 10.38; OPTIONAL: 2.) I'd STRONGLY SUGGEST you view at least the first two minutes of this video on rigid bodies at zPoly: 21 (rigid body beam problem) at http://youtu.be/aeXb6xLibGk	HMWK: 1.) do Probs 12.13, 12.18 and 12.21 (these are found in the Rigid Body chapter) OPTIONAL: 2.) if you'd like to see a more complicated rigid body problem, look at zPoly: 23 (complex rotating beam problem and NSL) at http://youtu.be/om8pQ0j8Hg0	HMWK: 1.) be grateful for all that you have, for presumably you will find this holiday considerably more enjoyable then will the turkey	
11/20	<u>11/21</u>	11/22	11/23	11/24
THANKSGIVING	THANKSGIVING	THANKSGIVING	THANKSGIVING	THANKSGIVING
11/27	11/20	11/20	11/20	12/1

CLASS:	CLASS:	L-day 1	CLASS:	CLASS:
 talk about energy considerations in rolling systems; talk about Rolling Objects lab 	1.) do Rolling Objects lab	CLASS: 1.) do rolling disk demo tomorrow; 2.) talked about motion of a rolling object; discuss Rolling Objects Lab (L-); 3.) Introduce angular momentum; 4.) Book Sections: 10.8, 10.9 and 11.1	 showed disk and hoop down incline demo; do yoyo problem; do ball down incline problem both ways if not already done; do Atwood Machine if not already done; at end, if time permits, do moment of inertia demo (rods) 	 talk about angular momentum without external forces (in an isolated system); talk about rigid body knot problem; Book Section: 11.1 and 11.3 and 11.4 at end and if not already done and if time permits, do moment of inertia demo (rods)
HMWK:	HMWK:	HMWK:	HMWK:	HMWK:
1.) do Probs 10.45, 10.49, 10.51, 10.55	 begin to think about getting the materials you will need to execute the Rolling Objects Lab on next Tuesday; do prob 11.11, 11.12 (this is a cross product problem), 11.15 and 11.25; OPTIONAL: STRONGLY SUGGESTED: if you'd like to see a complicated cons. of energy problem with rotation, look at zPoly: 26 (cons of energy with rotationcomplex beam problem) block on block w spring) at http://youtu.be/Qmn0tci5WC0 	1.) work on the Rolling Objects Lab due a week from Friday;	1.) do prob 11.30, 11.31, 11.35 and 11.37 OPTIONAL: 2.) if you'd like to see a complicated N.S.L. problem with rotation, look at zPoly: 25 (complex NSL ball, pulley and incline plane) at http://youtu.be/UOHCICQ1B_4	1.) prepare for test
12/4 Day 4	12/5 CLASS:		12//	12/8 CLASS:
	1.) talk about pulsars; 2.) either start talking about or begin to take data for the Rolling Objects Lab (L-) this lab will be due Friday after Block Days, 1/6 (don't put it offit is going to take	TEST 6 (rotational motion)	CLASS: 1.) go over tsst 2.) talk about angular momentu	 Rolling Objects Lab due; review for Block Day test
	some time to do the write- up, which needs to be word- processed)			
	some time to do the write- up, which needs to be word- processed) CLASS: 1.) perpare for test; 2.) Chipotle Night from 5:00 pm to 7:00 pm	HMWK: 1.) relax	HMWK: 1.) finish writing up Rolling Objects Lab (due Friday)	HMWK: 1.) begin to prepare for Block day test: 2.) to find College Board AP- level Free Response questions, go to https://apstudents.collegeboa rd.org/courses/ap-physics-c- mechanics/free-response- questions-by-year 2.) to find Multiple Choice questions, go to Mr. White's site learnapphysics.com
12/11	some time to do the write- up, which needs to be word- processed) CLASS: 1.) perpare for test; 2.) Chipotle Night from 5:00 pm to 7:00 pm 12/12	HMWK: 1.) relax 12/13	HMWK: 1.) finish writing up Rolling Objects Lab (due Friday) 12/14	HMWK: 1.) begin to prepare for Block day test: 2.) to find College Board AP- level Free Response questions, go to https://apstudents.collegeboa rd.org/courses/ap-physics-c- mechanics/free-response- questions-by-year 2.) to find Multiple Choice questions, go to Mr. White's site learnapphysics.com

HMWK: 1.) reiteration: to find College Board AP-level Free Response questions, go to https://apstudents.collegebo ard.org/courses/ap-physics-c- mechanics/free-response- questions-by-year 2.) to find Multiple Choice questions, go to Mr. White's site learnapphysics.com				
12/18	12/19	12/20	12/21	12/22
Winter Break	Winter Break	Winter Break	Winter Break	Winter Break
· · · · · · · · · · · · · · · · · · ·				
12/25	12/26	12/27	12/28	12/29
Winter Break	Winter Break	Winter Break	Winter Break	Winter Break
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	(SNOW?)		(SNOW?)
1/1	1/2 Winter Breck	1/3	1/4	1/5
		 0.) say something about the big test and its grading; 1.) your next test will be a week from Friday); 2.) Newton's Law of Universal Gravitation; 3.) Measuring the Gravitational Constant; 4.) free falling acceleration and gravitational force; 5.) Book Sections: 13.1, 13.2 and 13.3 	CLASS: 1.) gravitatinal potential energy; 3.) total energy in an orbiting system that is circular that is oval; 4.) Book Sections: 13.5 and 13.6	
		HMWK:	HMWK:	
		1.) do Prob 13.3, 13.5, 13.10 and 13.12	1.) do Prob 13.26, 13.28, 13.31	
1/8	1/9	1/10	1/11	1/12
CLASS:	CLASS:	L-day 1	CLASS:	Second Semester Begins
 energy considerations in planetary and satellite motion; AP problems; 	 Hooke's Law Lab (L-); motion of an object attached to a spring; mathematical representation of simple harmonic motion; motion of an object attached to a pendulum Book Sections 15.1, 15.2 	CLASS: 1.) finish what was wasn't presented yesterday; 2.) energy of simple harmonic oscillator; 3.) the vibratory motion demo/lab done to Disney's "It's a Small World"; 4.) Book Section 15.3 and 15.5	 finish what wasn't done yesterday; pendulum lab wave motion demos? 	1.) TEST 8 (gravitation and vibratory motion)
HMWK:	НМШК:	НМЖК:	НМЖК:	нмwк:
1.) do Prob 13.34, 13.36, 13.39	 look at the solutions to, but do not do to be turned in, Probs 15.1, 15.3, 15.5, 15.9, 15.13; your time should, presumably, be used to finish off the Rotating Object's Lab that is due Tuesday 	1.) do Prob's 15.17, 15.19, 15.22, 15.31, 15.33; 2.) Chipotle night from 5:00 pm to 7:00 pm	1.) prepare for test	1.) relax

_	1111 Quarter, 2023-2024				
S	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
N					
	1/15 MLK Jr Holiday	<u>1/16</u> second semester begins Day 4	1/17 CLASS: 1.) go over test; 2.) talk about difficulty of next semester; 3.) talk about cheating; 4.) talk about course evaluation; 5.) begin to talk about Properties of Electric Charge if time permits; 6.) talk about The Great Static Charge Scavenger Hunt lab you will have time on Thursday (no write-up) to present your findings); 7.) Book Sections 5.1, 5.2	1/18 CLASS: 00.) static charge hunt? 0.) continue with properties of chargesdo pithball demo; 2.) talk about charging objects by contact and induction; 3.) mention Coulomb's Law and point out its use as a magnitude in problems; 4.) look at Coulomb Law problems (where is force zero between two charges); 5.) Book Sections 5.2,	1/19 L-day 1 CLASS: 1.) present the idea of the electric, field; 2.) talk about minutia associated with electric fields; 3.) talk about continuous charge distribution; 4.) for homework, mention that you know how to do work calculations, and you know how to get a force from an E-fld expression 5.) Book Sections 5.4, 5.5, 5.6 and 5.7
			HMWK: 1.) look over Fletch's first few chapters of Vol. 2	HMWK: 1.) do Prod's 23.4, 23.10, 23.8, 23.15, 23.17 not 23.7, 23.13; 2.) don't forget about the Great Static Charge Scavenger Hunt	HMWK: 1.) do Prob's 23.24, 23.43, 23.45 and 23.47 look atsolution to but do not do 23.21, 2.) EXTRA STUFF: Fletch's video zPoly: 34 (electric fields in general form) found at http://youtu.be/L_j2yaSRjmY
	1/22	1/23	1/24	1/25	1/26
TestWk?	CLASS: 1.) finish up odds and ends; 2.) if time, do Electric Field Lab (do semi-informal write- up in class); 3.) for homework, talk about HMWK: 1.) do problems 23.29, 23.35 (derive this) and 23.37, look at solution to but do not do: 23.31.	L-day 3 CLASS: 1.) talk about E-fld lines; 2.) intro to electric flux; 3.) explain Gauss's Law; 4.) Application of Gauss's Law to Various Charge Distributions; 5.) Book Sections 6.1, 6.2 and 6.3 HMWK: 1.) do Prob's 23.40, 23.41, 24.1, 24.6, 24.7	Day 4	LLASS: 1.) more Gauss's Law problems HMWK: 1.) do Prob's 24.11, 24.17, 24.23, 24.27	CLASS: 1.) Gauss's Law and cylindrical symmetry; 2.) Gauss's Law and infinite, flat surfaces; 3.) start electrical potentials 4.) Book Section 6.4 HMWK: 1.) do prob's 24.29 and 24.33; 2.) begin pre-test;
	2.) look at prob's 23.40, 23.41; do not do 23.39, 23.43; 2.) EXTRA STUFF: Fletch's video zPoly: 34 (electric fields in general form) found at http://youtu.be/L_j2ya5RjmY	1/20	1/21	2/1	2/2
	1/29	1/30 CLASS:	1/31 CLASS:	2/1 Day 4 quest 8:30 am	CLASS:
	CLASS: 1.) review	1.) TEST 1 (electrostatics, Coulomb's Law and E-flds)	 0.) go over test; 1.) intro to electric potential; 2.) definition of <i>electric</i> potential; 3.) Potential Difference; 4.) Potential Difference in a Uniform Electrical Field; 5.) Book Section 7.1, 7.2 		 do whatever wasn't covered yesterday; if time, deriving Electric Potential and Potential Energy <i>Due to Point</i> <i>Charges</i>; Book Section 7.3
	HMWK: 1.) prepare for test 2.) SUNDAY5-7 PM	HMWK: 1.) relax	HMWK: 1.) do Prob's 24.35, 24.37, 24.39, 24.43, 24.44		HMWK: 1.) do Prob's 25.1, 25.3, 25.5, 25.9, not 25.8, 25.11, 25.18 and 25.22; 2.) EXTRA STUFF: Fletch's video zPoly: 35 (absolute electrical potentials in general) found at http://youtu.be/Cyplz6afxMQ

LASS: LASS: LASS: LASS: Detaining the Value of Link Root Capacitors in Value of Restore Failure in the Empiric Failure in the Empire Failure in the Empiler in the Empire Failure in the Empire Failure in the Empire Fai	2/5	2/6	2/7	2/8	2/9
1.) Miken Oldrog Lab (dot) (a) Obtaining the Value of Monkey, 2(12) (b) Obtaining the Value of Monkey, 2(12) (c) Obtaining	CLASS:	CLASS:	CLASS:	CLASS:	Day 4
Money, 2/12) the Electric Field from the Electric Potential, Commous Charge Distributions; 3.) Electric Potential Due to Distributions; 3.) Electric Potential Due to Charged Conductor, and 7.6 does Advantan of Commous Charge Distributions; 3.) electric Potential Due to Charged Conductor, and 7.6 bit Mice The Source Distribution (Mines); 3.) electric Potential (Mines); 3.) electric Poteni (Mines); 3.) electric Poteni (Mines); 3.) e	1.) Millikan Oildrop Lab (due	1.) Obtaining the Value of	1.) finish whatever wasn't	1.) talk about capacitors	
Image: Section 2.1. Section	Moneqy, 2/12)	the Electric Field from the	done yesterday;	briefly (for homework)do	
2.) Beckie (Potential Due to Communicate Payment of Communicate Payment of Communicate Payment of Communicate 2) Beckie (Potential Due to communicate Payment of Communicate Payment of Communicate Payment of Communicate 2) Beckie (Potential Due to communicate Payment of Communicate Payment of Communicate Payment of Communicate 2) Beckie (Potential Due to communicate Payment of Communicate Payment of Communicate Payment of Communicate 2) Beckie (Potential Due to communicate Payment of Communicate Payment of Communicate Payment of Communicate 2) Beckie (Potential Due to communicate Payment of Communicate Payment of Communicate Payment of Communicate 2) Beckie (Potential Due to communicate Payment of Communicate Payment of Communicate Payment of Communicate 2) Communicate Payment of Communicate Payment of Communicate Payment of Communicate Payment of Communicate 2) Communicate Payment of Communicaties and Communicate Payment of Communicaties Payment of Communicate Payment of Communic		Electric Potential;	look at derivation of	Mr. White's "flash on	
Channows Charge Distributions; 3.1 define and charged Conductor; 4.1 Deck Sections 7.4, 7.5 and 7.6 multiple layered, charged 3.1 define and charged Conductor; 4.1 Deck Sections 7.4, 7.5 and 7.6 21.1 Deck Section 7.4, 7.5 and 7.6 21.1 Deck Section 7.4, 7.5 and 7.6 HMMX: 1.1 Or Mare MMIMaan Ollow; 1.1 Deck Tree MMIMaan Ollow; 1.2 St 8 and 25.22; 1.2 St 8 and 25.22; 1.2 St 8 and 25.22; 1.2 St 8 and 25.22; 1.1 Deck Section 8.1 1.1 Deck Section 10.3 1.1 Deck Section		2.) Electric Potential Due to	electric potential function for	camera" demo	
Destributions; a) Electric Potential Use a Desprese Constructor; a) Electric Potential Use a Desprese Constructor; a) Electric Potential Use a Desprese Constructor; a) Electric Potential Use and 7.6. Destributions; bit with the second of the potential and respective with the second of the potential and capacitance; bit bit with the second of the potential and capacitance; bit with the second of the potential and capacitance; bit bit with the bit		Continuous Charge	multiple layered, charged	2.) Lab-Electric Potential	
3.) Electric Potential Due to a Charge Conductors and 7.6 3.) definite capacitance and 7.6 4.1000000000000000000000000000000000000		Distributions;	geometries (spheres and	(due Tuesday, 2/13);	
a Charged Conductor; 4) Book Sections 7.4, 7.5 and 7.6 HWWK: 1.) write up Milliam OlDrep 1.0 do Proble 25.14, 25.15, 1.0 do Proble 25.14, 25.15, 1.1 do Proble 26.14, 25.15, 1.2 do Proble 26.14, 25.15, 1.2 do Proble 26.14, 25.15, 1.2 do Proble 26.14, 25.15, 1.3 do Proble 26.14, 25.15, 1.3 do Proble 26.5, 26.11, 1.1 do Proble 26.14, 25.15, 1.1 do Proble 26		3.) Electric Potential Due to	cylinders);	3.) mention again	
A) Book Sections 7.4, 7.5 All Sock Sections 7.4, 7.5		a Charged Conductor;	3.) define capacitance	capacitanceyou'll need it	
4.) Book Sections (A, 7.5 and 7.76 HWWKi 1.) Syste up Millian OlDrop (a) (dee Monday, 2/12) 1.3 de Prob's 25.14, 25.15, 25.16 or 25.8, 25.11, 25.18 and 25.22; 1.3 de Prob's 25.32, 25.35 and 25.40 1.3 first liab if not done in class; 2.) when you are done with the liab, look at prob 26.1, 26.13, 28.16 and 26.23, 2014 2002 2012 2012 2012 2012 2014 2013 Class: 1.) combination of capaciton appactance; 3.) Book Section 8.1 2014 Class: 1.) combination of capaciton (appactance; 3.) Book Section 8.3 and 8.3 1.) prepare for test 1.) compare fo			4.) show cap demos (camera)	for part of the homework	
Image: International constraints of the second s		4.) Book Sections 7.4, 7.5			
HEWK: HEWK: HEWK: 1.3 ymite with Hilkan OllOpe 12 1.4d (dee Monder, 2712) 21 2.5 18 and 25.23; 12 2.5 18 and 25.23; 12 2.6 does Monder, 2712) 21 2.7 does Monder, 2712) 212 <		and 7.6			
1.) Write Up Miniked Output 1.) Bo Prob S 2.3 (2, 2, 3, 3, 2, 3, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	HMWK:		HMWK:	HMWK:	
Lab (table Protocity, 7(12)) 22.16 and 25.2; 23.40 2.3.80 2.0.80 my row are done with the lab, look at prote 26.1, 26.13, 26.15 and 26.25, but dont write them up to be turned in. 2012 212 213 20.41 20.45 21.5 20.16 21.0 dont write them up to be turned in. CASS: 21.10 21.45 21.10 21.10 21.1 dont write them up to be turned in. CASS: 21.2 21.2 21.2 21.10 2.1 doubting opacitance; 2.1.3 CASS: 2.1.2 22.12 21.2 21.10 2.1 doubting opacitance; 2.1.3 CASS: 2.1.42 2.1.6 21.10	1.) Write up Millikan OliDrop	1.) do Prop's 25.14, 25.15,	1.) do Prod's 25.33, 25.35 and	1.) finish lab if not done in	
Also 2/12 2/13 2/14 2/14 2/15 2/15 2/15 2/16 LASS: 1.) definition of capacitance: (2) calculating capacitance. computer models of capacitance: (3.) Book Sections 8.1 1.0 combination of capacitors (2) calculating capacitance. (3.) Book Sections 8.1 1.0 combination of capacitors (2) calculating capacitance. (3.) Book Sections 8.1 1.0 capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) calculating capacitance. (3.) Book Sections 8.1 1.0 capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Stored in a Charge Capacitor (demo); (2) capacitor MD 1.0 herrys Store	Lab (due Monday, 2/12)	25.20; 1101 25.8, 25.11,	25.40	Class;	
213 26:13 26:15 and 26:23 10 to the total of total of the total of t		25.10 and 25.22,		the lab look at prob 26.1	
ZIAS: ZIA ZIA <thzia< th=""> <thzia< th=""> <thzia< th=""> ZIA<th></th><th></th><th></th><th>26 13 26 16 and 26 23 but</th><th></th></thzia<></thzia<></thzia<>				26 13 26 16 and 26 23 but	
Mask Point Control Point Contro Point Control Point Control<				don't write them up to be	
UNK: 1) definition of capacitance; 2) calculating capacitance; 3) Book Sections 8.1 HAWK: 1) Derry Storen (reference); (series and parallel); (series and parallel); (series and parallel); 2) Class: (series and parallel); 3) Book Section 8.4 and 8.5 Class: 1) Energy Storen (reference); 2) Classic (series); 2) Classic (series); 3) Book Section 8.4 and 8.5 PACULTY PROFESSIONAL CROWTH DAY (no store); 3) Book Section 8.4 and 8.5 NMWK: 1) de Proby 2.6.5, 26.31, 26.34, 26.11 HMWK: 1) de Proby 2.6.5, 26.31, 2.5.42 (fr you want to give these on the day of the test, that's OKyou might with to start on the practice test conject (series); 3) Dover test; 2) Dev Store (series); 3) Dev St				turned in.	
Mark Mark Mark Mark Mark Mark 1.) definition of capacitance; 2.) calculating capacitance; computer models of computer models of souther					
Prescription 2/12 2/13 2/14 2/15 2/15 2/15 CLASS: L-day 1 CLASS: L-day 1 CLASS: PRCULTY PACULTY 1.) definition of capacitors: (2) calculating capacitance; 1.) Energy Stored in a capacitance; 1.) Energy Stored in a capacitance; TEST 2 (electric potentials and capacitance) PRCULTY 3.) Book Section 8.1 1.0 orbitration of capacitors in the tom marking done crucits; 3.) Book Section 8.4 and 8.5 TEST 2 (electric potentials and capacitance) ROWTH DAY (no transition of capacitors in the tom marking done crucits; 3.) Book Section 8.1 HMWK: 1.) do froit's 26.24, 26.37; 1.) do prob's 26.24, 26.37; 1.) prepare for test relax 1.) 1.) do Prob's 26.5, 26.51; 1.) do froit's 26.24, 26.37; 1.) prepare for test relax 1.) 2.) low at 26.33 and 26.44; 1.) prepare for test 1.) prepare for test 1.) relax 1.) 2.) low at 26.33 and 26.44; 1.) prepare for test 1.) prepare for test 1.) 1.) 1.) 2.0 porticly: 20 proving proving test 1.) do reparts 26.34; 1.) prepare for test 1.) 1.) 2.0 porticly: 20 proving proving test 1.) do reparts 26.34; 1.) 1.) 1.) 2.1 portest 26.37; 2.10 2/10 2/21<					
LASS: L-chty 1 LLASS: LLASS: TASS:	2/12	2/13	2/14	2/15	2/16
1.) Construction of capacitance: 1.) Combination of capacitors 1.) C	LLASS:		1) Energy Stored in a		FACULTY
Line Control (1) (1) Control (1) Con	capacitance:	1) combination of canacitor	Charged Capacitor (domo):	LEST 2 (electric	PROFESSIONAL
Computer models of or capacitance: 2.3 go through powerpoints 3.) Book Sections 8.1 3.) Capacitor Michaels or carults 3.) Book Sections 8.1 3.) Book Section 8.3 and 8.3 HWWK: 1.) do Prob's 26.5, 26.31; 1.) do Prob's 26.5, 26.31; 2.10 of through powerpoints 26.34, 26.11 HWWK: 1.) do Prob's 26.5, 26.31; 2.10 of through powerpoints 1.) do Prob's 26.5, 26.31; 2.10 of through powerpoints 2.10 of through powerpoints HWWK: 1.1, of composition of dielectrics; 1.10 prepare for test 76.34, 26.11 HWK: 1.) do Prob's 26.5, 26.31; 2.10 of the test to only if the test to only if the up or to Chipotle; 2.10 of the cast on the practice test to only if the up or to Chipotle; 1.10 prepare for test 77.5 CASS: Day 4 1.10 or brob cast on the practice test only if the up or to Chipotle; 2.10 or the test stance in general (along with temperature dependence); resistance in general (along with provided by power samply and dissipated by resistor; in settors of a wire; 2.1, 0 the that this if from Book Sections 9.1, 9.2, and S.4 2.1 or to the this if from Book Sections 9.1, 9.2, 9.4 2.1 or to the start is from Book Sections 9.1, 9.2, 9.4, 9.6, 10.1 and 10.2	2) calculating canacitance	(series and parallel).	2) Capacitors w/ Dielectrics	potentials and capacitance)	GROWTH DAY (no
capacitance; 3.) Capacitor MD (not on make sense without first having done circuits) 3.) Book Section 8.1 3.) Book Section 8.4 and 8.5 3.) Book Sections 8.1 Richard's calendar-hard to make sense without first having done circuits) 4.) start discussion of dielectrics; 5.) Book Section 8.3 and 8.3 HMWK: 1.) do Prob's 26.5, 26.31, 26.42 (from and to be optimized and the day of the test, that's 0Kyou might want to start on the practice test to might if you go to (hippetig); 1.) prepare for test PRESIDENTY'S DAY 2/22 2/21 2/22 2/	computer models of	2.) go through powerpoints	Demo of Capacitor Discharge:		school)
 3.) Book Sections B.1 Richard's calendar-hard to make sense without first having done circuits; A) start discussion of dielectrics; S.) Book Section B.3 and B.3 HMWK: 1.) do Prob's 26.5, 26.31, 26.42 (6.9) avant to give me these on the day of the test, that's OK-you might want to start on the practice test, that's OK-you might want to start on the practice test, that's OK-you might want to start on the practice test. They for you go to Chipotte); J.) look z 26.33 and 26.44; s.) EXTRA STUFF: Fletch's video zPoil; 41 (dielectrics and copacitors) at the://youtu.be/RevireHw2c PRESIDENT'S DAY CLASS: D. Jook at 26.33 and 26.44; s.) Presenter the start of the test conglit if you go to Chipotte); J.) look at 26.33 and 26.44; s.) EXTRA STUFF: Fletch's video zPoil; 41 (dielectrics and copacitors) at the://youtu.be/RevireHw2c PRESIDENT'S DAY CLASS: D. Jook at 26.33 and 26.44; s.) Presenter to D. Joo over test; J. Jue test this if rom Book Section 9.1, 9.2, 3.4, 3.0 et that is is from Book Section 9.1, 9.2, 3.4, 9.6, 1.01 and 10.21 	capacitance;	3.) Capacitor lab (not on	3.) Book Section 8.4 and 8.5		schoory
IMWK: HMWK: HMWK: 1.) 1.) do Prob's 26.5, 26.31, HMWK: 1.) prepare for test 26.34, 26.11 HMWK: 1.) prepare for test 26.34, 26.11 1.) do Prob's 26.5, 26.31, 1.) prepare for test 26.34, 26.11 1.) do Prob's 26.5, 26.31, 1.) prepare for test 26.34, 26.11 1.) do Prob's 26.5, 26.31, 1.) prepare for test 26.34, 26.11 CASS: 1.) prepare for test 26.34, 26.11 CASS: 1.) prepare for test 26.34, 26.11 CASS: 2/20 2719 CASS: 2/20 2720 2/21 CASS: 20.0 opt rest; 1.) whithwite 20.0 opt rest; 1.) use first half of period 20.0 opt rest; 1.) whithwite 21.0 white that wisis from Box 6Sections 9.1, 9.2 and 9.4 CLASS: 2.) note that this is from Box 6Sections 9.1, 9.2 and 9.4 2.) note that this is from Box 6Sections 9.1, 9.2 and 9.4 2.) note that this is from Box 6Sections 9.1, 9.2, and 9.4 2.) note that this is from Box 6Sections 9.1, 9.2, and 9.4 2.) box 6Section 9.1, 9.2, <td>3.) Book Sections 8.1</td> <td>Richard's calendarhard to</td> <td></td> <td></td> <td></td>	3.) Book Sections 8.1	Richard's calendarhard to			
Having done circuits) 4.) start discussion of dielectrics; S.) Book Section 8.3 and 8.3 HWWK: 1.) do Prob's 26.5, 26.31, 26.34, 26.11 1.) do the see on the day of the test, that's Cot-you might want to start on the practice test tonight if you go to Chiptels; 2.) look at 26.33 and 26.44; 3.) gover test; 1.) use first half of period dic capacitors) at imp://woul.be/getrovietw.zc Day 4 CLASS: 1.) use first half of period doi: 0 crutil: 4b/inition of current, Ohm's Law, resistance in general (along with temperature dependence); resistance of a wire; 2.) note that this is from Book Section 9.1, 9.2, and 9.4 2.) Book Section 9.1, 9.2, and 9.4 3.) define electric power both provided by power supply and displated by resistor; 4.) point out Resistors in Series and Parallel. 5.) Book Section 9.1, 9.2, 9.4, 9.6, 10.1 and 10.21		make sense without first			
4.) start discussion of dielectrics; S.) Book Section 8.3 and 8.3 HMWK: HMWK: 1.) 1.) do Prob's 26.5, 26.5.1 HMWK: 1.) of Prob's 26.4, 26.37, 26.42 (26.37), 26.42 (26.37), 26.42 (27.37), 26.42 (17 you want to give me these on the day of the test, that's OK-you might want to start on the practice test tonight if you go to Chipotle; 1.) prepare for test relax 26.34, 26.11 2/19 2/20 2/21 2/22 21.0 box at 25.33 and 26.44; S.) DKNA STUFF: Fletch's video zPoly: 41 (dielectrics and capacitors) at http://youtu.be/get/twiftw/22 Day 4 CLASS: (no school-again, you lucky on some start in general (along with temperature dependence); resistance of a wire; 2.) note that this is from Book Sections 9.1, 9.2, and 9.4 Day 4 CLASS: Combo demo; 2.) or that this is from Book Sections 9.1, 9.2, and 9.4 3.) define electric power both provided by power supply and disglated by resistor; 3.) define electric power both provided by power supply and disglated by resistor; 3.) box Section 9.1, 9.2, 9.4, 9.6, 10.1 and 10.21 Section 9.1, 9.2, 9.4, 9.6, 10.1 and 10.21 Section 9.1, 9.2, 9.4, 9.6, 10.1 and 10.21		having done circuits)			
Image: Solution of the second seco		4.) start discussion of			
 S.) Book Section 8.3 and 8.3 HMWK: HMWK:		dielectrics;			
HMWK: HMWK: HMWK: HMWK: HMWK: 1.) 1.) do Prob's 26.5, 26.31, 26.42, 10 Prob's 26.24, 26.37, 26.42, 17 you want to give me these on the day of the test, that's OKyou might want to start on the practice test tonight if you go to Chipotel); 1.) prepare for test relax 2.) look at 26.33 and 26.44; 3.) EXTRA STUFF: Fletchis video z60; you wait og ive do chipotel); 1.) prepare for test 7/22 2/22 2/19 2/20 2/21 2/22 2/22 2/22 PRESIDENT'S DAY CLASS: 1.) durinition of current, ohmis Law, resistance in general (along with temperature dependence); resistance of a wire; 2.) note that this is from Book Section 9.1, 9.2, and 9.4 2.) took store 9.1, 9.2, and 9.4 3.) define electric power both provided by power supply and disignated by resistor; 3.) define electric power both provided by power supply and disignated by resistor; 2.) note that this is from Book Section 9.1, 9.2, 9.4, 9.6, 10.1 and 10.21		5.) Book Section 8.3 and 8.3			
HNWK: HNWK: HNWK: HNWK: I.) do Prob's 26.24, 26.37, 26.34, 26.37, 26.42 (if you want to give me these on the day of the test, that's OKyou might want to start on the practice test tonight if you go to Chipotle's 2. I.) do Prob's 26.24, 26.37, 26.31, 2. I.) do Prob's 26.24, 26.37, 26.31, 26.31, 2. I.) do Prob's 26.24, 26.37, 26.34, 26.37, 26.34, 26.31, 2. I.) orepare for test relax I.) 26.34, 26.11 want to start on the practice test tonight if you go to Chipotle's 2. J.) look at 26.33 and 26.44; 3.) EXTRA STUFF; Fletch's video zPoly: 41 (dielectrics and capacitors) at http://yout.be/gottwitw2c 2/20 2/23 2/22 2/23 7(no exhool-again, you lucky 0. 0g over test; ducks) 0. 9 over test; j.), whirkwind: preamble to circuits: definition of current, Ohm's Law, resistance of a wire; 2.) note that this is from Book Sections 9.1, 9.2 and 9.4 J.) use first half of period domogeneral (along with temperature dependence); resistance of a wire; 2.) note that this is from Book Sections 9.1, 9.2 and 9.4 J.) additine electric power both provided by power supply and dissipated by resistor; 4.) point out Resistors in Series and Parallel. Section 10.3 J.) Book Section 10.3 9.4, 9.6, 10.1 and 10.21 Y.) point out Resistors in Series and Parallel. Section 10.21 J.9.4 J.					
PHWK: PHWK: 1.) do Prob's 26.5, 26.31, 26.32, 26.11 1.) do Prob's 26.24, 26.37, 26.42 (if you want to give me these on the day of the test, that? SCK-you might want to start on the practice test tonight if you go to Chipotle); 1.) prepare for test relax 1.) 201 202 202 202 202 202 201 200 at 26.33 and 26.44; 3.) EXTRA STUFF: Fletch's video 2Poly: 41 (dielectrics and capacitors) at http://yout.be/RgottwHw/zc Day 4 CLASS: 202 202 21 203 over test; 1.) use first half of period doing Circuit Lab; (no schoot-again, you lucky) CLASS: 0.) go over test; 1.) whirtwind: preamble to circuits: definition of current, ducks) Day 4 CLASS: 1.) use first half of period doing Circuit Lab; 2.) explain EMF using parallel. Combo demo; 1.) do several set of pants problems; 2.) note that this is from Book Sections 9.1, 9.2 and 9.4 3.) define electric power both provided by power supply and dissipated by resistor; 4.) point out Resistors in Series and Parallel. 5.) Book Section 9.1, 9.2, 9.4, 9.6, 10.1 and 10.21 Day 4 2.1					
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4.) point out Resistors in Series and Parallel. 5.) Book Section 9.1, 9.2, 9.4, 9.6, 10.1 and 10.2		supply and dissipated by			
Series and Parallel. 5.) Book Section 9.1, 9.2, 9.4, 9.6, 10.1 and 10.2		4.) point out Resistors in			
5.) Book Section 9.1, 9.2, 9.4, 9.6, 10.1 and 10.2		Series and Parallel.			
9.4, 9.6, 10.1 and 10.2		5.) Book Section 9.1, 9.2,			
		9.4, 9.6, 10.1 and 10.2			

	2/26 L-day 1 CLASS: 1.) senior ditch day HMWK: 1.) do Prob's 28.17, 28.21, 28.24, 28.27,	HMWK: 1.) do Prob's 27.7, 27.12, 27.14 and 28.5; look at but do not do 27.23; 2.) EXTRA STUFF: Fletch's video zPoly: 39 (seat of the pants DC circuit analysis) at https://www.youtube.com/watch?v=KmIJMgev FSI 2/27 CLASS: 1.) finish seat of pants; 2.) talk about Kirchhoff's lab (don't do it, just look at circuit); 4.) Book Section 10.4 HMWK: 1.) do Prob's 28.32 and 28.42; 2.) EXTRA STUFF: Fletch's video on Kirchoff's Law at zPoly: 40 (Kirchoff's Law) www.youtube.com/watch?v=KmIJMgsvFSI	2/28 CLASS: 1.) do RC Circuits lab (due Wednesday, 3/6) 2.) eiterate Kirchoff's Laws (go through smiling face circuit); 2.) talk more about RC circuits; 3.) mention the time constant; 4.) Book Section 10.5 HMWK: 1.) do Prob's 28.34; then, an initially uncharged cap C1 is in parallel with a second uncharged cap C2, where C2 is itself in series with an open switch S2; the cap combination is in series with a resistor R, an open switch S1 and a DC power supply Vo; a.) draw the circuit with the switches open. Proceeding, S1 is closed at t = 0. b.) Sketch the current vs time graph through R; c.) sketch C1's	HMWK: 1.) do Prob's 27.29, 27.35, 27.39 and 28.1 2/29 Day 4	HMWK: 1.) do Prob's 28.6, 28.8, 28.9; 28.9; 2010 CLASS: 1. do Capaciitors lab HMWK: 1.) write up Capcitors Lab
	3/4 CLASS: 1.) do cap analysis charging and discharging characteristics; 2.) talk about meters; 3.) talk about electrocution	3/5 L-day 1 CLASS: TEST 3 (DC circuits)	through R; c.) sketch C1's "charge on plates" graph as a fct of time; d.) after a long period of time, S1 is opened and S2 is closed. e.) sketch the current vs time graph for the current in the cap's parallel circuit. 3/6 CLASS: 0.) begin new section; 1.) what magnetic effect really are; 2.) Magnetic Fields & Forces magnetic field lines:	3/7 CLASS: 1.) Applications Involving charged Particles Moving in a Magnetic Field; 2.) Magnetic Force Acting on a Current-Carrving	3/8 last day of 3rd quarter Day 4
	 and lightning 4.) talk about meters; 5.) take time to review and answer questions HMWK: prepare for test; possibly Chipotle night from 5:00 to 7:00 pm if not done Sunday night 	HMWK: 1.) relax	 3.) Motion of a Charged Particle in a Uniform Magnetic Field (qvxB). 4.) Demo: Magnetic Force on moving charge. 5.) book sections 11.1, 11.2 and 11.3 HMWK: 1.) do Prob's 29.2, 29.6, 29.8, 29.9, 	Conductor. Demo: Force on current-carrying wire 3.) book sections 11.4 and 11.5 HMWK: 1.) do Prob's 29.13, 29.15, 29.19	
Fo	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	3/11	3/12	3/13	3/14	3/15

CLASS:	CLASS:	L-day 3	CLASS:	CLASS:
1.) Applications Involving	1.) Jab: do drawing Magnetic	CLASS:	1.) Hall Effect:	1.) we'll see
charged Particles Moving in	Field lines or	1.) galvanometers:	2.) reiterate law of Biot-	
a Magnetic Field:	e/m lab (helmholtz coil) (if	2.) rod down incline prob:	Savart:	
2) Magnetic Force Acting on	the latter do "back of the	3) devices based on B-flds:	3) The Magnetic Force	
a Current-Carrying	envelope" write-up due after	4.) talk about Biot Savart	Between Two Parallel	
Conductor Demo: Force on	holiday):	5) book sections 11.6 and	Conductors:	
current-carrying wire	2) talk about the direction	11 7	(4) book sections 12.1 12.2	
3) book sections 11.4 and	of B generated by a current-	11.7	12 3 and 12 4	
5.) BOOK Sections 11.4 and	carrying wite		12.5 010 12.4	
	3) book section 11 5			
	5.) book seedon 11.5,			
				HAVE A CREAT SPRING
1 do Proble 20.24, 20.20	$1 \ do \ Proble 20.44 \ 20.47$	$1 \rightarrow de \text{ Proble 20.2} 20.12$	$1 \downarrow da Brable 20 E 20.22$	DEAK
1.) UO FIOD S 29.24, 29.29,	1.) 00 FIOD S 29.44, 29.47,	1.) d0 FI0D \$ 50.5, 50.15,	1.) 00 FIOD \$ 50.5, 50.25,	DREAN
29.35, 29.37, 2) EVTRA STUEE: Elotch's	29.51, 50.2 2) EVTRA STUEE: Elotch's	50.4,		
video zPoly: 42 (B-fields	video zPoly: 50 (mass		way)	
and current-carrying wires)	spectrometer) at			
at	https://voutu.be/mnhh0uRvO2o			
https://www.youtube.com/watch?v=0Z2ku_T-				
OGE				
3/18	3/19	3/20	3/21	3/22
Spring Break	Spring Break	Spring Break	Spring Break	Spring Break
3/25	3/26	3/27	3/28	3/29
Spring Break	Spring Break	Spring Break	Spring Break	Spring Break
4/1	4/2	//2	A/A	4/5
			4/4	
Day	1) ask about MM	1) finish un (talk about	CLASS	1) candidate
	attendance.	displacement current).	1) intro to Faraday's Law	
	2) combining B-flds:	2) revisit velocity trap in all		
	3.) trick for determine	its iterations:		
	attraction/repulsion between	3.) review questions?		
	B-fld producing entities:			
	4.) magnetic field of coil;			
	5.) Ampere's Law (do			
	solenoid and toroid as			
	examples);			
	6.) Gauss's Law in			
	Magnetism;			
	7.) book sections 12.5, 12.6			
	and 12.7;			
	HMWK:	HMWK:	HMWK:	HMWK:
	1.) do Prob's 30.29, 30.34	1.) prepare for test	1.) write up the "charge on	1.) do Prob's 31.6, 31.9,
	and 30.45		electron" lab (the Helmholtz	31.14;
	2.) Chipotle night from 5:00		coil lab). This will be due	2.) EXTRA STUFF: Fletch's
	pm to 7:00 pm		next Monday.	video zPoly: 45 (motional
				EMS'S) at
				https://youtu.de/SK2CralWK00
4/8			4/11	4/12
	4/9	4/10	7/11	.,
LLASS:	4/9 Day 4	4/10 CLASS:	CLASS:	L-day 1
1.) motional EMF's;	4/9 Day 4	CLASS: TEST 4 (magnetic fields)	CLASS: 1.) prelimary intro to	L-day 1 CLASS:
1.) motional EMF's; 2.) induced electric fields;	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faradav's Law lab	CLASS: 1.) prelimary intro to induction and Faraday's Law;	L-day 1 CLASS: 1.) prepare for Magic
1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story;	L-day 1 CLASS: 1.) prepare for Magic Mountain
1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d;	L-day 1 CLASS: 1.) prepare for Magic Mountain
1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d; 4.)	L-day 1 CLASS: 1.) prepare for Magic Mountain
1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d; 4.) 5.) book section 13.5 and 12.6	L-day 1 CLASS: 1.) prepare for Magic Mountain
1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d; 4.) 5.) book section 13.5 and 13.6	L-day 1 CLASS: 1.) prepare for Magic Mountain
1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d; 4.) 5.) book section 13.5 and 13.6	L-day 1 CLASS: 1.) prepare for Magic Mountain
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LASS: 1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d; 4.) 5.) book section 13.5 and 13.6	L-day 1 CLASS: 1.) prepare for Magic Mountain
LASS: 1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4 HMWK: 1.) prepare for test	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab HMWK: 1.) write up Faraday's Law	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d; 4.) 5.) book section 13.5 and 13.6 HMWK: 1.) do Prob's 31 20 31 23	L-day 1 CLASS: 1.) prepare for Magic Mountain HMWK: 1.) do Prob's 31 25 31 30
LASS: 1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4 HMWK: 1.) prepare for test 2.) ChipIte night from 5 to	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab HMWK: 1.) write up Faraday's Law Lab (due Tuesday, 4/19)	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d; 4.) 5.) book section 13.5 and 13.6 HMWK: 1.) do Prob's 31.20, 31.23	L-day 1 CLASS: 1.) prepare for Magic Mountain HMWK: 1.) do Prob's 31.25, 31.30
LASS: 1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4 HMWK: 1.) prepare for test 2.) ChipItle night from 5 to 7 pm	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab HMWK: 1.) write up Faraday's Law Lab (due Tuesday, 4/19)	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d; 4.) 5.) book section 13.5 and 13.6 HMWK: 1.) do Prob's 31.20, 31.23	L-day 1 CLASS: 1.) prepare for Magic Mountain HMWK: 1.) do Prob's 31.25, 31.30
LASS: 1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4 HMWK: 1.) prepare for test 2.) Chipltle night from 5 to 7 pm	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab HMWK: 1.) write up Faraday's Law Lab (due Tuesday, 4/19)	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d; 4.) 5.) book section 13.5 and 13.6 HMWK: 1.) do Prob's 31.20, 31.23	L-day 1 CLASS: 1.) prepare for Magic Mountain HMWK: 1.) do Prob's 31.25, 31.30
LASS: 1.) motional EMF's; 2.) induced electric fields; 3.) book section 13.3 and 13.4 HMWK: 1.) prepare for test 2.) Chipltle night from 5 to 7 pm	4/9 Day 4	4/10 CLASS: TEST 4 (magnetic fields) 1.) do Faraday's Law lab HMWK: 1.) write up Faraday's Law Lab (due Tuesday, 4/19)	CLASS: 1.) prelimary intro to induction and Faraday's Law; 2.) Hoover dam story; 3.) d; 4.) 5.) book section 13.5 and 13.6 HMWK: 1.) do Prob's 31.20, 31.23	L-day 1 CLASS: 1.) prepare for Magic Mountain HMWK: 1.) do Prob's 31.25, 31.30 4/10

CLASS	L-day 3	Day 4	CLASS	CLASS
1) Magic Mountain		buy	1) I'm way behind: review	0) do AP days survey:
1.) Magic Mountain	1) motional EMEs:		motional EMEC:	2) talk finish off
	1.) HIOUOIIdi EMFS,		2) talked shout addu	2.) Laik ministrom
	2.) DOOK SECTION 14.1 and			cransitormers;
	14.2		currents (that was last night's	2.) talk about energy in a
			homework);;	magnetic field
			3.) book section 14.1 and	3. mutual inductance;
			14.2	self inductance;
				5.) inductors and RL circuits;
				6.) do rod down incline with
				its backstory if time;
1 Vurite un Magie Meuntain	1) de Dreh 21.44		$1 \cdot de Dreble 22.2 \cdot 22.7$	$1 \rightarrow de Drehle 22.16 22.17$
1.) write up Magic Mountain	1.) do Prod 31.44		1.) do Prodis 32.3, 32.7,	1.) do Prodis 32.10, 32.17,
report			32.10, 32.14	32.21
4/22	4/23	4/24	4/25	4/26
L-day 1	CLASS:	L-day 3	Day 4	CLASS:
CLASS:	TECT	CLASS:		1.) Mechanics Multiple Choice
1.) demos	Faraday's	1.) begin reviewing for AP test-		,
2.) review for test	Law)	-Mechanics Multiple Choice		
HMWK:	HMWK:	HMWK:		HMWK:
1.) prepare for test	 look at the video on 	1.)		1.)
	vector fields st			
	https://www.youtube.com/w			
	atch?v=rB83DpBJQsE			
4/29	4/30	5/1	5/2	5/3
	L-day 1	CLASS:	CLASS:	Day 4
1) Mechanics Free Pesnonse		1) E&M multiple choice	1) F&M Free Perponse	buy 4
1.) Mechanics Tree Response	1) Mochanics Erea Bosponso	1.) Lan multiple choice	1.) Lan Tree Response	
	1.) Mechanics Free Response			
HMWK:	HMWK:	HMWK: 1.)	HMWK: 1.)	
1.)	1.)			
5/6	5/7	5/8	5/9	5/10
U.S. Govt AP; Art History	MicroEcon AP; Statistics	L-day 1	Chinese Lang; Psych	U.S. History; Spanish Lit
CLASS:	CLASS:	English Lit; Comp Sci	CLASS:	CLASS:
1.)	1.)	CLASS:	1.)	1.)
		1.) don't meet (14)		
HMWK:	HMWK: 1.)	HMWK:	HMWK: 1.)	HMWK: 1.)
1.)		1.)		
5/13	5/14	5/15	5/16	5/17
Day 4	English Lang; Physics C	French Lang; Comp Sci Prin	L-day 1	Latin
Calculus AP	CLASS:	Music Theory	Spanish Lang; Biology	CLASS:
	1.) don't meet	CLASS:	CLASS:	1.) Parting Shot
		1.) (2)	1.) (3)	
	HMWK: 1.)	<u>HMWK:</u> 1.)	HMWK:	HMWK: 1.)
			1.)	
5/20	5/21	5/22	5/23	5/24
CLASS:	Day 4	CLASS:	CLASS:	L-day 1
1.) senior last daydemos		1.) senior week	1.) senior week	CLASS:
				1.) senior week
E.c.	E loo	F (0.0	E (0)	F /21
5/27	5/28	5/29	5/30	5/31
Memorial Day	BLUCK DAT/SENIOR IRIP	BLUCK DAT/SENIOR IRIP	BLUCK DAT/SENIOR IRIP	BLUCK DAT/SENIOR IRIP
Holiday SENIOR				
TRIP				