L-day E	Day 6		CLASS	L-day 2
CLASS.	Dayo	CLASS:	CLASS:	L-uay S
CLASS:		1.) finish up	TEST 11 (magnetism)	CLASS:
1.) talk about solenoids			(3 4 4 7	 go over test;
talk about shortcut to				45 min periodSpeed
finding force between				Test
current-carrying wires				
3.) begin looking at				
devices: Hall effect				
devices. Hall effect,				
motors, speakers, doorbells,				
ramp problem,				
galvanometers, other				
demos;				
HMWK:	Chipotle night from 5:30 to	HMWK:	HMWK:	HAVE A GREAT SPRING
1) if you have timefrom	7:00 pm	1) prepare for test:	1) relay	BREAK
Eletch's chapter on	, loo pill			
Magneticm Brob 16 11 12				
Magnetisin, Prod 10.11, 12,				
20 and 21;				
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	4/3	4/4	4/5
CLASS:	CLASS:	Day 6	CLASS:	CLASS:
0.) ask who isn't going on	1.) reiterate horseshoe		 finish problem; 	0.) test on Wednesday
MM trip	magnetic demopoint out		talk about Lenz's Law;	1.) collect PhET labs;
1.) begin Faraday's Law and	that rotating coil in power		3.) do Faradav's Law Lab	2.) do lab/demo of rail gun
induction section with mini-	plants generates AC.		PhFT.	introduce idea of transformers
lab (Island Spring	2) redefine magnetic flux in		1) start discussion about	during the talk:
induction)				2) talk more fully about
	more complete way,		transformers	S.) talk more fully about
2.) do horseshoe magnetic	complete with example			transformers (show yoke
and coil demonstrationtalk	calculation;			ppt);
about classical explanation;	present Faraday's Law			4.) talk about what will
3.) do horseshoe magnetic	both in short and expanded			happen if the primary coil is
and coil demotalk about it	form:			attached to an AC source:
from Faraday's perspective:	(a) do a full problem (a			5) show symbol for a coil in
(1) define magnetic flux	what flux h what induced			a circuit and the symbol for
4.) define magnetic nux	The substitution of the su			a circuit, and the symbol for
mathematically	EMF, C. What's current (given			a transformer (the two colls
	к), a. wnat's i's direction			making up the transformer);
	(can't do until define Lenz's			6.) talk about Edison and
	Law);			power production) (should
	5.) talk about Edison and			have done yesterday)
	Tesla			7.) finish PhET lab
				-
HMWK:	HMWK:		HMWK:	HMWK:
ASSIGNED:	ASSIGNED		ASSIGNED	ASSIGNED
1) do Proh 20 1 and 20 1	$1 \ do \ Brob \ 20 \ 10$		1) do Prob 20 15 and 20 20	1) do Prob 20 45 and 20 40
	1.) UO PIOD 20.10;		1.) UU PIUD 20.15 and 20.30;	1.) UU PIUU 20.45 and 20.48;
(this last one is tricky	2.) from Fletch's Chapter on		2.) If you want to see the	2.) from Fletch's Induction
THINK ABOUT IT before	Induction (Ch 17), do Prob's		video on motional EMFs, it is	cnapter (Ch 1/), look at
turning to the solutions	17.1, 17.2, 17.3 and 17.4		at zPoly: 45 (motional EMFs)	Prob's 17.5, 17.7-9, 17.13
how do magnetic fields act	(these are all possible test		at http://youtu.be/4hZhwrUNUz8	and 17.15 (these are all
around current-carrying	questions).			possible test questions);
wires, and how is magnetic	XtraWrk:			
flux mathematically defined-	3.) do Prob 20.1 and 20.4			
-this is all about knowing	(this last one is tricky			
how the variables are	THINK ABOUT IT before			
defined!)	turning to the solutionshow			
	do magnetic fields act around			
	current_carnying wires and			
	how is magnetic flow			
	inautematically defined-this			
	is all about knowing how the			
	variables are defined!)			
				4/10
4/8	4/9	4/10	4/11	4/12

L-day 5	CLASS:	CLASS:	Day 6	CLASS:
CLASS:	1) show Al foil dropping	TECT 12	, -	1) go over test:
1) look at motional EME's	through magnetic field domai	ESEL2 (Faraday's		2) propose for Magic
1.) TOOK at MOLIONAL EMPS	through magnetic field demo;	Law)		2.) prepare for Magic
by looking at Prob 20.67 (FL	3.) show magnet through			Mountain trip (spent all day
4);	wrapped coils and LEDs			doing this)
2.) look at motional emfs	demo;			
ppt;	4.) tell "bar sliding down			
discuss eddy currents;	incline in B-field story" and			3.)
4.) show eddy current demo-	do demo;			3.)
-rotating disk;	5.) tell pendulum story			
5.) talk about inductance in				
RL circuits:				
6.) show current versus				
time graph for an inductor				
7) talk about time constant				
for PL circuit				
HMWK:	HMWK:	HMWK:		HMWK:
1) if you have nothing else	1) prepare for test	1) relax		ASSIGNED:
to do and want something	2) CHIPOTLE NIGHT tonight			1) from Eletch's book do
challenging to show on the	from E 20 7:00 DM			Drob 12 21 22 and 22
Droh 20 CZ	110111 5.30-7.00 PM			Plob 13.31, 32 dilu 33,
Prod 20.67;				2.) skim first half of Fletch's
				Chapter 15 (It's on
				semiconductors
4/15	4/16	<u> </u>	4/18	4/19
Magic Mountain trip	CLASS:	CLASS:	CLASS:	Day 6
. agio i lountani trip	1.) show AC demo	1.) talk about	0.) CHANGING TEST FOR	
	(heartheating speaker)	semiconductors	NEXT WEDNESDAY (but am	
	2) talk about AC and BMS	2) talk about diadas (balf	extending MM lab due date	
	2. J LAIK ADULL AL ANU KINS	wayo roctificra)	until a wook from Eriden)	
	2) talk about hours	wave recurrers);	1) do transisters	
	3.) talk about how	3.) talk about LED's;	1.) do transistors	
	oscilloscopes work if time	4.) talk about full wave	2.) talk about circuit elements	
	(didn't do this yearon	rectifiers	in AC circuits RL, RC, and	
	Thursday);		RLC circuits, and	
			impedance; finish up RLC	
			circuits and impedance;	
			, ,	
HMWK:	HMWK:	HMWK:	HMWK:	
1.) Write up Magic Mountain	1.) skim last half of Fletch's	1.) from Fletch's book skim	ASSIGNED:	
lab (this will be due next	chapter on semiconductors	Circuits 13, parts B and E	1.) From Fletcher's book, do	
Monday, 4/22)	(Ch 15)look at chapter end	(this has to do with AC	13.34 and 13.35	
	problems (they are all	circuits and RMS values):		
	qualitative and similar to	2) from Eletch's book skim		
	what you will run into on your	Circuite 14 part E (this bas		
	last tost)	to do with conscitors in AC		
	last test)			
		circuits);		
		3.) from Fletch's book skim		
		Circuits 17, part H (this has		
		to do with inductors in AC		
		circuits);		
4/22	4/23	4/24	4/25	4/26
CLASS:	CLASS:	L-esv 5	1/20	CLASS:
1.) talk about Chipotle	1.) finish radio	CLASS:	CLASS:	1) MAGIC MOUNTAIN
night:	tear into VCRs	1.) learn how to solder	TECT 12	
2) talk about radios (last			ICOLIS (AC circuits,	LAB DUE;
topic for the tost)			RMS values, RLC circuits,	go over test;
topic for the test)			semiconductors, diodes,	3.) second day of soldering
			transistors, and radios)	
			· ·	
HMWK:	HMWK:	HMWK:	HMWK:	CLASS:
1.) begin to prepare for test	1.) prepare for test;		1.) relax	
-Chipotle night:	2.) if you are confused about			
2.) If you are confused	what's happening in class			
about what' happening in	finish skimming through			
class read Fletch's Ch18	Eletch's chanter 18 (it's about			
Part C and D (this talks	AM radios in general)			
about circuit elements in AC				
circuite and how DLC singuite				
concurs and now REC CITCUITS				
can be used to "tune" a				
raulo circuit);				
3.) look at video zPoly 48				
(reactance, impedance in RL				
and RC, AC circuits) at				
nttp://youtu.be/1R9Rj/4IQ				
	<u> </u>		<u> </u>	
4/29	4/30	5/1	5/2	5/3

Day 6	CLASS: 1.) introduce breadboarding;	CLASS: 1.) introduce the solar robot lab 2.) learn how to solder	L-day 3 CLASS: 1.) work on solar robots	CLASS: 1.) determine when we'll meet in next two weeks to determine day for Parting Shot and for end-of-year demonstrations; 2.) continue working on solar robot
5/6	5/7	5/8	5/9	5/10
U.S. Govt AP; Art History CLASS: 1.)	Day 6	English Lit; Comp Sci CLASS: 1.) Don't meet (19)	Chinese Lang; Psych CLASS: 1.)	L-day 3 U.S. History; Spanish Lit CLASS: 1.)
 E/12	E/14	E/1E	E/16	E/17
Calculus CLASS: 1.) don't meet (18)	English Lang; Physics C CLASS: 1.)I Parting shot	Day 6 French Lang AP; Comp Sci Prin; Music Theory AP	Spanish Lang; Biology CLASS: 1.) (3)	Latin CLASS: 1.) demos
5/20 L-day 3 CLASS: 1.) senior last day	5/21 CLASS: 1.) senior week	5/22 CLASS: 1.) senior week	Day 6 (senior week)	5/24 CLASS: 1.) senior week
- E/03				F (24
Memorial Day Holiday SENIOR TRIP	5/28 BLOCK DAY/SENIOR TRIP	5/29 BLOCK DAY/SENIOR TRIP	BLOCK DAY/SENIOR TRIP	BLOCK DAY/SENIOR TRIP