Second Quarter, 2020-2021				
S MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
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11/2	11/3	11/4	11/5	11/6
CLASS:	CLASS:	FLEX DAY	Day 3	CLASS:
1.)	1.)			1.)
HMWK:	HMWK:			HMWK:
1.)	1.)			1.)
•	*	11/11	11/12	,
11/9 Day 5	11/10 CLASS:	FLEX DAY	CLASS:	11/13 CLASS:
Day 3	1.)	I LEA DAT	1.)	1.)
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Day 3	CLASS:	FLEX DAY	Day 5	CLASS:
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11/23		THANKS CTATALS		
CLASS: 1.)	CLASS: 1.)	THANKSGIVING	THANKSGIVING	THANKSGIVING
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HMWK:	HMWK:			
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11/30	12/1	12/2	12/3	12/4
Day 3	CLASS:	FLEX DAY	Day 5	CLASS:
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12/7				
CLASS:	CLASS:	FLEX DAY	Day 3	CLASS:
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12/14	12/15	12/16	12/17	12/18
Day 5	Block Day	Block Day	Block Day	Block Day
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12/21	12/22	12/23	12/24	12/25
Winter Break	Winter Break	Winter Break	Winter Break	Winter Break
(SNOW?)	(SNOW?)	(SNOW?)	(SNOW?)	(SNOW?)
12/28	` '	12/30		
Winter Break	Winter Break	Winter Break	Winter Break	Winter Break
(SNOW?)	(SNOW?)		(SNOW?)	
1/4		FLEX DAY	1/7	Ź
Day 3	CLASS:	FLEX DAY	Day 5	CLASS:
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	HMWK:			HMWK:
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CLASS:	CLASS:	FLEX DAY	HMWK:	(Second Semester begins)
1.) Part 1 of The Elegant	1.) You should by now have a			CLASS:
Universe starts at 3:30 is	copy of 13 Things That Don't			1.) intro the course:include
you use the first entry shown	Make Sense;			motivation behind the course;
on Friday's calendar;	2.) class Website is at			present class Web site; talk
2.)	faculty.polytechnic.org/physics			about journal (create it);
· ·	and clicking on Cosmology,			2.) find out which AP tests
	Astornomy and Relativity in			each student is taking;
	the left-hand column;			3.) talk about old and new
	3.) if you find a URL on this			format;
	pdf and it spans only one line,			4.) use zoom to watch
	the link will be active and			"relative size of you versus
	going to the page will only			the universe" video
	require a click; if the link			"immensity of universe";
	spans more than one line, you			5.) intricacies of atom;
	will have to copy and paste			6.) start first part of "The
	the link into a browser to go to			Elegant Universe" with
	the site (this bit of weirdness			students watching via zoom;
	seems to be the case in			at 4 min mark(we'll talk
	general with pdfs made from			more about E/M when we talk
	Excel files);			about light) (8 minute
	4.) Be aware that we are			mark starts unification)this
	going to try to do more each			video can be found on-line at
	day than the calendar			either
	suggests, so the calendar will			http://www.pbs.org/wgbh/nov
	change pretty continuously to			a/physics/elegant-
	reflect the updates. Also,			universe.html OR
	assignments will be put on			http://www.ovguide.com/tv/t
	MyPoly and turned in material			he_elegant_universe.htm
	will go to Google Classroom			
HMWK:	HMWK:			HMWK:
1.)	1.)			1.) Google "2019 OK" and
'	,			write up what you find there;
				2.) Google "meteor crater;"
				let your curiosity get the
				better of you
				3.) Go on-line to class Web
				page and read both "About
				the Books" and "Course
				Information."
				4.) make your first entry into
				your journal
				,
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d	rd Quarter, 2020-2021	THEOD AND	MEDITOR	THE COLUMN	F070 111
s L	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
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	1/18		1/20	·	1/2
M	ILK Jr Holiday	Day 5	FLEX DAY Homework:	CLASS: 0.) mention the use of word "mankind"; 1.) discuss impact of "2019 OK" and associated bits of trivia garnered; 2.) reiterate underlying focus is unification; 3.) talked about how an equation can model the world (that's what everyone is looking for)use a spring system as an example; 4.) talk about "The Elegant Universe" to datetalk about Newton and GmM/r^2 and why he didn't like it; 5.) continue with "The Elegant Universe"got to talking about Newton unifying heaven and earth with theory of gravity and problem with the theory (sun ceasing to exist)	CLASS: 0.) clarify what the journal should be used for; 1.) got messed up and showed the middle video yesterdaystarted with beginning video today; 2.) as video proceded, talked about Gmm/r^2 and Newton inventing Calculus; talked about why Einstein came up with Spec Th or Rel, complet with explanation of theory of e/m waves for light and Maxwell's equations and newton's theory of light; 3.) "The Elegant Universe" will get to Quantum Mechanic next time with all of its weirdnesswill stop the vide at that point and start talking about Quantum Mechanics 4.) if you have time, show QM video with freaky guy;
				HMWK: 1.) journal; 2.) from the class Web site under "secret stuff," read "Branes and the Big Bang" (if you get a message that says the URL can't be opened without a password, it means you have JAVA turned on (which is dangerous these days) and you need to use the password "elephant". If that doesn't work, email me and I'll send you a pdf of the documentit's only 2 pages, no big deal);	HMWK: 1.) journal; 2) look at the YouTube video "Particles and waves: the central mystery of quantum mechanics" at https://www.youtube.com/w. tch?v=Hk3fgjHNQ2Q (note: you will have to copy this UR and paste it into Safari or Firefox or the browser of you choice); 3.) look at the video "What i the Heisenberg Uncertainty Principle" at https://www.youtube.com/w. tch?v=TQKELOE9eY4
	1/25	1/26	1/27	1/28	1/2
1. pas 2nn 2. com 3. wi pr 4. loo GI ab infinite	Quantum Mechanics;) started QM discussion ith video of double slit	CLASS: 1.) talk about Information Theory from homework reading; 2.) before showing the Born Rule video (this is really good at identifying notation), talk about idea of wave function and states and how you might denote a state and the probability that a state will happen; 3.) show The Born Rule video at https://www.youtube.com/watch? v=VHlqY44fOg0 4.) reiterate about notation	FLEX DAY Homework:	Test 1: (material to date from The Elegant Universe, quantum mechanics and the preamble information)	Day 5
1. 2. lin "T Eq Th 3. Ele	MWK 5:) journal;) from the Secret Stuff" nk on the Home Page, read The Origin of Schrodinger's quationInformation neory";) Download "Synopsis of egant Universe" from the class pdf's" on the class Teb site and skim it	HMWK 6: 1.) journal; 2.) re-skim the Synopsis of "The Elegant Universe" to date; look at summary of Quantum Mechanics; 3.) get ready for test		HMWK 8: 1.) relax	

2/1	2/2	2/3	2/4	2/5
CLASS:	CLASS:	FLEX DAY	CLASS:	Day 3
1.) NTOE: the superposition	1.) derivation of Schrodinger's		1.) talk about reading from	, -
rule: if an object can do any	Equation via LGU at		"13" (stars at edge moving	
	https://www.youtube.com/watch?		too fastneed for dark	
will do (in a sense) all of	v=DEqWbrMv6-k		matter;	
. ,	2.) discussion of Heisenberg's		T	
them at the same time;	Uncertainty Principle from LGU		2.) continue with The Elegant	
when you make a	1 .		Universe:	
measurement, the wave	at		3.) during video, talked about	
	https://www.youtube.com/wat		what strong force does (holds	
one state	ch?v=rciVgQm-F_U&t=215s		protons together in nucleus	
2.) with that, look at the	2.) show video of laser beam		and weak force (creates new	
Wave Function video from	spreading out as slit cuts beam		atoms after supernova via	
LGU:	off "visualization of		radioactive decay); talked	
https://www.youtube.com/watc	Heisenberg's Unc Prin.flv"		about how forces in Standard	
h?v=02eZMf17wFs&list=PLg-	show derivation of Sch.		Theory are assumed to be	
OiIIbfPj3JrdQgqkdlPe_jxRC0mw	Equ;		particle interactions, so String	
35&index=2	4.) preamble 13 Things That		Theory is powerful as string	
2.) look at interference in	Don't Make Sense articles as		vibrations can act like	
QM (looked at Schrodinger's	preamble (a discussion of		particle/forces;	
equation halfway through	alpha will come in the next		particle/rorces,	
this video) from LGU:	section);			
https://www.youtube.com/watc	section),			
h?v=tt8gVXDsh7Q (notice				
that the solution is in the				
chat of the video)				
3.) look at Schrodinger's Equation made easy from				
LGU:				
https://www.youtube.com/watch?v				
=ZfKq3g3MHqE&list=RDCMUCFk				
1iexL3T5gvGcMpeHNA&index=4				
HMWK 8:	HMWK:		HMWK:	-
1.) journal	1.) journal;		1.) journal;	
	2.) from <u>13 Things That Don't</u>		2.) from <u>13 Things That Don't</u>	
	Make Sense, read pages 7-13		Make Sense, read pgs 13	
			through 18;	
			-	
2/8	2/9	2/10	2/11	2/12
CLASS:	Day 5	FLEX DAY	CLASS:	FACULTY
CLASS: 1.) mention Mr. White's			CLASS: 1.) talk about <u>13 Things</u> ;	
CLASS: 1.) mention Mr. White's triple binary star system	Day 5		CLASS: 1.) talk about 13 Things; 2.) continue with The Elegant	FACULTY PROFESSIONAL
CLASS: 1.) mention Mr. White's triple binary star system https://exoplanets.nasa.gov/	Day 5		CLASS: 1.) talk about <u>13 Things</u> ;	FACULTY PROFESSIONAL GROWTH DAY (no
CLASS: 1.) mention Mr. White's triple binary star system https://exoplanets.nasa.gov/ news/1672/discovery-alert-	Day 5		CLASS: 1.) talk about 13 Things; 2.) continue with The Elegant	FACULTY PROFESSIONAL
CLASS: 1.) mention Mr. White's triple binary star system https://exoplanets.nasa.gov/news/1672/discovery-alert-first-six-star-system-where-	Day 5		CLASS: 1.) talk about 13 Things; 2.) continue with The Elegant	FACULTY PROFESSIONAL GROWTH DAY (no
CLASS: 1.) mention Mr. White's triple binary star system https://exoplanets.nasa.gov/news/1672/discovery-alert-first-six-star-system-where-all-six-stars-undergo-	Day 5		CLASS: 1.) talk about 13 Things; 2.) continue with The Elegant	FACULTY PROFESSIONAL GROWTH DAY (no
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PRESIDENT'S DAY (no schoolagain, you lucky ducks)	CLASS: 1.) do Test/oral exam; 2.) continue with The Elegant Universe HMWK: 1.) journal	FLEX DAY	CLASS: 1.) hopefully finish The Elegant Universe 2.) talk a little about the precision of the universe show video The Fine Tuning of the Universe which has good info but is the religious one); 3.) leave Zoom and have students run through discussion of alpha (use PowerPoint to identify where the math comes from) at http://faculty.polytechnic.org/phy sics/1%20Astronomy,%20Cosmol ogy,%20Relativity%202007to200 8/2_Section%202%20(ElegUniv, %20std%20mod%20n%20cosm) /1Summary_Sect_2 Elegant_Univ_n_q.m./alpha.pdf 4.) return and show video Alpha Changing and talk about the consequences of having fundamental constants changing in light of the previous video about the fine tuning of our universe; 5.) if time permits, introduce the Standard Model HMWK: 1.) journal; 2.) go to the "Secret Stuff" folder on the class Website and read "Drinking Heavy Water'	
2/22 CLASS:	2/23 Day 5	2/24 FLEX DAY	2/25 CLASS:	2/26 CLASS:
1.) we are trying to understand how the universe is built, so next up is a discussion of the Standard ModelLEAVE ZOOM and look over ppt on the Standard Model; 2.) look at video about "the beginning and progression onward" at https://www.youtube.com/watch?v=wNDGgL73ihY 3.) look at un-narrated "Chronology of the Universe" https://www.youtube.com/watch?v=DB8651JE3xo kibitz: as you go (inflation, quark asymmetry, why 1 Tev is important, quark clumping; deuterium and He nuclei formation, 50-50 point for energy/radiation distribution, the first neutral atoms and light free streaming, first generation stars, second generation stars, second generation stars, etc.); 4.) leave Zoom n look at preambles to Cosmological Timeline (temp/energy AND 2-sizes), then view timeline			1.) we spent most of our time doing Monday's stufffor today, 2.) looked at the Fundamental Particles and Forces ppt at http://faculty.polytechnic.org/physics/1%20Astronomy,%20 Cosmology,%20Relativity%20 2007to2008/2Section%202% 20(ElegUniv,%20std%20mod %20n%20cosm)/1Summary _Sect_2 Elegant_Univ_n_q.m./d.%20fu nd%20forces%20n%20particle s.pdf as the polytechnic.org/physics/1%20Astronomy,%20 Cosmology,%20Relativity%20 Cosmology,%20Relativity%20 Cosmology,%20Relativity%20 2007to2008/3Section%203% 20%20(alpha,%20cosmologica l%20timeline)/1Summary_Sect_3 alpha,%20timeline/charge%20 of%20UP%20quark,%20DOWN %20quark.pdf (or look at ppt)	1.) had the kids read their 3 sentence science fiction stories about antimattervery fun stuff; 2.) spend most of period doing Thursday's stuff, then did: 3.) show quarks changing colors video; 4.) in preamble to talking about the Higgs field, gave explanation of what mass is (a relative measure of a body's resistance to changing its motion, or inertia) and how that's related to graviational mass, then talked about how Higgs field replaces those ideas in the Standard Model; HMWK:
HMWK: 1.) journal; 2.) write three-sentence science fiction story that utilizes the idea of antiparticles			HMWK: 1.) journal	HMWK: 1.) journal
3/1	3/2	3/3	3/4	3/5

1.) 2.) begin to look at light as a particle: leave zoom and read pags 115-117 on the Photoelectric Effect out of	Day 5
2.) begin to look at light as a particle: leave zoom and read pags 115-117 on the Photoelectric Effect out of	
particle: leave zoom and read pags 115-117 on the Photoelectric Effect out of	
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Fletch's Ch4, Physics text,	
Light As A Particle;	
http://faculty.polytechnic.org/	
physics/1%20Astronomy,%20	
Cosmology,%20Relativity%20	
2007to2008/5Section_5_(ligh	
7	
3.) come back and discuss;	
4.) look at video on	
photoelectric effect at	
https://www.youtube.com/wat	
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3 ' ' ' ' ' ' ' ' ' '	
7.) video summary how light	
is produced in an atom is at	
https://www.youtube.com/wat	
ch?v=N9nWdNadkIE	
	-
1.) journal;	
2.) from Section 5 class pdfs	
folder, read the file titled	
"Bohr Atom and Production of	
9.10	
3/10 3/11	3/12
	(third quarter ends)
P ⁻	Day 3
	Day 3
3	
ch?v=IXxZRZxafEQ	
3.) possibly do Optical	
Potpourri lab?	
4.) do a quick rundown of	
· '	
definition); reflection (talk	
briefly about ray tracing); and	
reflection (ran out of time)	
	t_as_a_particle)/3pdf's_and_supplementary_reading/Ch%2 004-PhysLight%2Opart.pdf 3.) come back and discuss; 4.) look at video on photoelectric effect at https://www.youtube.com/wat ch?v=MFPKwu5vugg 5.) photoelectric demo at https://www.youtube.com/wat ch?v=v-1zjdUTu00 6.) leave zoom and read about light produced by atoms (pgs 117-124 in Fletch's chapter); 7.) video summary how light is produced in an atom is at https://www.youtube.com/wat ch?v=N9nWdNadkIE HMWK: 1.) journal; 2.) from Section 5 class pdfs folder, read the file titled "Bohr Atom and Production of Light" 3/10 CLASS: 1.) do oral exams; 2.) look at the nice summary of light: https://www.youtube.com/wat ch?v=IXxZRZxafEQ 3.) possibly do Optical Potpourri lab?

1.) journal 2.) from Section 5 dass pdfs folder, read the file total Color of the file total Stellar Spectrum and the file total Spectrum and the file spectrum and the file total Spectrum and the file total Spectrum and the file spect	C	T	T		
2.) from Section 5 class of deference of the file of t	HMWK:	HMWK:		HMWK:	-
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titled "Stellar Spectrum Characteristics and Black body Radiation" Interts.//facute, polyeciantics, polyecianti					
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Ight_sa_s_particle/pdf_sum any_section_S.htm					
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MONDAY TUESDAY 3/16 3/17 3/18 3/					
CLASS: Day 5 Syling Break Spring Break Sp		THESDAY	WEDNESDAY	THURSDAY	EDIDAY
CLASS: 1.) preamble to section (celestial sphere; plane, constellations; the Zodiac; celestial plane; esaons, years, etc.) 2.) for fun, show "night sky with various degrees of city ilight," then "celestial sphere," 3.) talk about thin films; 4.) look at mirages using video from India https://www.youtube.com/w atch?w=DMM02GSADM 4.) talk about the green flash https://www.youtube.com/w atch?w=DMM02GSADM 4.) talk about the green flash https://www.youtube.com/w atch?w=DMM02GSADM 5.) talk about what the sun does at sunset; 6.) look at pits on lenses; 7.) talk about telescopes using https://www.youtube.com/w atch?w=LIII/3pp-8 HMWK: 1.) journal 2.) if you haven't already done it, fill out the Self- Assessment for your 3rd quarter Comments 3/22 3/23 3/23 3/24 Spring Break					
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CLASS:	Day 5	FLEX DAY	CLASS:	CLASS:
1.) say a little more about	Day 5	FLEX DAT	1.) talk about consequences of	
				,
Kepler;			Einstein's assumptions; 2.) talk about the	dilation (powerpoints);
2.) talk about quasars at			· ·	2.) show derivation of time
https://www.youtube.com/w			Michelson/Morley experiment;	dilation and length
atch?v=3TZEp_n3eIc			2.) do baseball analogytalk	contraction;
3.) begin to talk about			about how "c" can always be	3.) talk about space-time
Einstein;			the same;	diagrams and world lines;
4.) present what motivated			4.) begin to talk about	4.) talk about problem of
Einstein to create the Special			consequences of "c" always	units on axes of space/time
Theory of Relativity;			being the same using space	diagrams (that time is like a
5.) point out the difference			ship comparison (intro to time	distance, like an x/y graph);
between the Special and			dilation and length	
General Theory of Relativity;			contraction)	
			5.) good discussion of	
			causality and the hyperbola	
			patters mirror proper time count (very essoteric)	
			https://www.youtube.com/wat	
			ch?v=1YFrISfN7jo	
			CI!!V=1111131117J0	
HMWK:			HMWK:	HMWK:
1.) journal			1.) journal	1.) journal
1/00	4/07	4/20	-1/20	1/20
4/26		4/28		4/30
CLASS:	FLEX DAY	Day 3	CLASS:	Day 5
1.) talk about relativistic			1.) talk about magnetic field	
factor and relativistic			theory	
velocitylook again at			2.) start paradoxes by outline	
derivation of length			pole in barn paradox;	
contraction (ppt messed up				
last time);				
2.) give banana-eating				
chimp problem;				
3.) look at a space/time				
diagramtalk more about				
units for its axes and notice				
its vagaries				
4.) explain why the primed				
axes looks the way they do				
on a space-time diagram;				
5.) talk about how you take				
data off a space-time				
diagram;				
6.) do space-time				
diagram/world line exercise;				
HMWK:			HMWK:	
1.) journal				
1.) Journal			1.) journal	
5/3	5/4	5/5	5/6	5/7
CLASS:		FLEX DAY		Day 3
1.) Sean and Gabe will be	1.) Gabe and Sean will be	homework:	1.) yes	, -
taking the AP Physics	taking the Calculus exam in		1., , 65	
exam in the afternoon	the morning			
		English Lit and Comp AP in		
		morning	Comp Sci A AP	
AP PHYSICS EXAM in			Art History AP	
afternoon	Calculus AP (morning)		· · · · · · ·	
1	(
HMWK:	HMWK:		HMWK:	
1.)	1.)		1.)	
1				
1				
5/10		5/12		
CLASS:	Day 5	FLEX DAY	CLASS:	CLASS:
1.)		homework:	1.)	1.) Libby and Sophie will be
				taking the AP Bio exam
1				
1				
HMWK:			HMWK:	HMWK:
1.)			1.)	1.)
1				
5/17	5/18	5/19	5/20	5/21

CLASS:	Day 3	FLEX DAY	CLASS:	Day 5
1.)		homework:	1.)	
HMWK:			HMWK:	
1.)			1.)	
5/24	5/25	5/26	5/27	5/28
CLASS:	Block Day	Block Day	Block Day	Block Day
1.) Libby and Sophie will be	G-period	F-period	D-period	B-period
taking Calculus AP				
2.) SENIORS AWAY FOR				
THEIR TRIPS				
HMWK:	G-period	E-period	C-period	A-period
1.) NOPE				
5/31		6/2		
Memorial Day Holiday	Special Schedule	Sign-outs	Pupil Free	US Honors Day and
SENIOR TRIP				Commencement