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PRESIDENT'S				
DAY (no schoolagain, you lucky ducks)	CLASS: 1.) read science fiction stories about antimatter 2.) show quarks changing colors video; 3.) in preamble to talking about the Higgs field, give explanation of what mass is, then talked about how Higgs field replaces those ideas in the Standard Model; 4.) to animate Higg's field, show video https://www.youtube.com/w atch?v=joTKd5j3mzk (the quaint explanation); 2.) show the more sophisticated explanation of Higgs at https://www.youtube.com/w atch?v=kixAljyfdqU 3.) talk about how Higgs field isn't only source of masslook at video at https://www.youtube.com/w atch?v=Ztc6QPNUqls&t=4s		CLASS: 1.) read science fiction stories; 2.) talk about 13 Things; (Slipher and red-shift; Hubble graphs speed vs distancerfarther out faster-universe expandingso farther away implies higher relative speed-the prop. const is the Hubble constant; talk WIMPS and cosmic radiation (have students find video on Bubble Chmbr n Cosmic Radiation); 3.) talk about Zwicky's (spherical bastards) problem (stars at edge of galaxy moving too fast); 4.) talk about Vera Rubins fights for Zwicky's idea (answer: halo of dark matter explains high vel); 5.) look at atomic interactions video (first 30 seconds https://www.youtube.com/watch?v=gwl2ln9ug n all beta decay https://www.youtube.com/watch?v=2gk-bANOMaU); 6.) how larger elements made using beta decay	photoelectric effect at https://www.youtube.com/watch?v=MFPKwu5vugg 3.) show photoelectric demo at https://www.youtube.com/watch?v=v-1zjdUTu0o 4.) talk about how light is produced by atoms; 5.) video summary how light is produced in an atom is at https://www.youtube.com/watch?v=N9nWdNadklE
	1.) journal; 2.) write three-sentence science fiction story that utilizes the idea of anti- particles		1.) journal; 2.) go to the "Secret Stuff" folder on the class Website and read "Drinking Heavy Water'	1.) journal
2/27	2/28	3/1	3/2	3/3
CLASS: 1.) sdd	Day 3	CLASS:	Day 5	CLASS:
		0.) do orals on Friday? 1.) finish Elegant Universe;		1.) orals 2.) at end, talk about "13 Things "
HMWK: 1.)		1.) finish Elegant Universe; HMWK: 1.) relax		2.) at end, talk about "13 Things " HMWK: 1.) journal;
	3/7	1.) finish Elegant Universe; HMWK:	3/9	2.) at end, talk about "13 Things " HMWK: 1.) journal;

HMWK:	LIMMA		LIBANA/IZ.	
1.) journal	HMWK: 1.) journal		HMWK: 1.) relax	
1.) journal	1.) journal		1.) Telux	
Fourth Quarter, 2021-2022 MONDAY	TUESDAY	WEDNESDAY	THURSDAY	EDIDAY
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
3/13	3/14	3/15	3/16	3/17
CLASS:	CLASS:	CLASS:	Day 3	CLASS:
1.) do optics lab stuff	1.) talk about Doppler Shift- look at video at https://www.youtube.com/w atch?v=h4OnBYrbCjY 2.) relevance to astronomy	see who will be around when; 2.) talk about distance to celestial objects 3.) astronomic unit;		1.) preamble to section (celestial sphere; plane, constellations; the Zodiac; celestial plane; seasons, years, etc.)find good video
	(start at about 1 minute)? https://www.youtube.com/w atch?v=3mJTRXCMU6o 3.) talk about how the sun produces spectral lines (need to talk about black body radiation first, then talk	density, and apparent brightness; 6.) standard candles; 7.) apparent magnitudes and absolute magnitudes;		for this 2.) for fun, show "night sky with various degrees of city light," then "celestial sphere," 3.) talk about types of yearnice summary of earth
	about how light progresses from core outward) 4.) spend a little time talking about telescopes (use video at https://www.youtube.com/w atch?v=LzII1f3pp-8);	8.) spectral classes https://www.youtube.com/wa tch?v=Y5VU3Mp6abI&t=1s		information (sidereal day, size comparison to sun, etc.) https://ciechanow.ski/earth- and-sun/ 4.) talk about "leap year" (find good video for this);
HMWK:	HMWK:	HMWK:		HAVE A GREAT SPRING
1.) relax	 journal; determine how far you are, in miles, from where 	1.) journal; 2.) for fun, read the article at http://www.jpl.nasa.gov/news/news.php?feature=6223&utm_source=iContact&utm_medium=email&utm_campaign=NASAJPL&utm_content=daily20160330-2		BREAK
3/20	3/21	3/22	3/23	3/24
Spring Break	Spring Break	Spring Break	Spring Break	Spring Break
3/27 Spring Break	3/28 Spring Break	3/29 Spring Break	3/30 Spring Break	3/31 Spring Break
4/3	4/4	4/5	4/6	4/7
Day 5	CLASS:	CLASS:	CLASS:	Day 3
uay 5	1.)	1.)	1.)	Day 3