

STEM Fall 2025: Week 6				
Complete before the class on Mon, Oct 20th				
STEM Assembly				
Complete at least one day on the Weekly Gratitude sheet.				
General Sciences				
	Topic	Reading	Exercises	
LifePac 7th Grade Unit 3	Stargazing	pg. 5-6		
	Constellations	pg. 8	1.7 - 1.8	pg. 9
	Star Charts	pg. 11-17	1.16 - 1.22	pg. 18
	Geocentric Theory	pg. 19-23	Watch time 15:00-18:30 of the video by Terence Tao discussing Aristarchus	
	Meteors	pg. 25	1.29	pg. 26
	Overview		1.01 - 1.09	pg. 28
			1.015 - 1.025	pg. 30
			1.026 - 1.027	
Aerospace				
	Topic	Reading	Exercises	
AEX II Activity Booklet	Parabolic Propulsion		Watch the video of NASA's Reduced Gravity Flight Education Program (RGP)	
			Watch the video of the "Vomit Comet" used in NASA's Reduced Gravity Program	
			Read the article about microgravity tests done parabolic flights	
			Demonstrate to your parents that vertical motion is independent of horizontal motion by repeating the experiment we did in class with one ball rolling off of a table. Explain to your parents the forces acting on the balls in each direction.	
			Use a tape measure and stopwatch to calculate to the total time, T, and horizontal range, R of a projectile launched from the ground. Repeat four times and calculate the Launch Angle & Launch Velocity each time to complete the table on pg. 67. Remember that the parabolic trajectory vertex is $S = 1/2 \cdot a \cdot (T/2)^2$ where $a = 32 \text{ ft/sec}^2$.	
	Teamwork in Aerospace	pg. 68-69	Read about the importance of teamwork in aerospace missions	
Hybrid Mathematics				
Complete the Venn Diagram question and bring to class to review				