STEM Fall 2025: Week 5

Complete before the class on Mon, Oct 13th

STEM Assembly

Complete at least one day on the Weekly Gratitude sheet.

Bring in one bible verse spoken by Christ that is meaningful to you.

General Sciences

	Topic	Reading	Exercises	
LifePac 7th Grade Unit 2	Graphs	pg. 33-34		
	Bar Graphs	pg. 35-36	2.1 - 2.5	pg. 35
			2.6	pg. 36
	Line Graphs	pg. 37	2.7	pg. 38
	Pictographs	pg. 40	2.12 - 2.18	pg. 41
	Circle Graphs	pg. 42	2.19 - 2.21	pg. 43
			2.23	pg. 44
	Graphs		Read 2.026 on pg. 46. Which type of graph is most appropriate? How should you order the data in the graph from left to right? Bring in your graph to discuss in class.	

Aerospace

	Topic	Reading	Exercises
AEX II Activity Booklet	Gyroscopes & Rotational Motion	Article on Gravity Probe B	Watch the video of gyroscopes spinning in zero-gravity space, demonstrating that they continue to spin in the same direction regardless of how they are moved around.
			Do a quick, 10 minute skim-read of all 52 pages of the article on Gravity Probe B. What was the most interesting picture or figure that caught your attention?
			Read about the following topics in the article on Gravity Probe B: - Curved spacetime (pg. 10) - Frame-dragging of local spacetime (pg. 15) - The most perfect sphere ever made (pg. 24)
			Complete the chart on pg. 41 showing the time it takes light & gravity to reach each planet.
			Watch the video on MEMS accelerometers used in smartphones (very similar to MEMS gyroscopes in smartphones).
	Parabolic Propulsion	pg. 59-60	Read about parabolic trajectories.

Hybrid Mathematics

Review the Babylonian Square Root Algorithm with your parents and demonstrate to them how to use it to calculate the square root of a large number like 17,340 accurate to 3 decimal places.