STEM Spring 2026: Week 7

Complete before the class on Mon, Feb 23rd

STEM Assembly					
- Supplies: Pencils & pens, folder with paper, scientific calculator					2 points
- Books: LifePac Science, CAP Astronomy, Lab Journal					
Find a Bible verse that mentions the Moon and be prepared to share it in class.					3 points
General Sciences					
	Topic	**Reading**	**Exercises**		
LifePac 9th Grade Unit 1	Structure of Matter	pg. 7-9	1.9	pg. 12	15 points
		pg. 13-14	1.15	pg. 15	
		pg. 16			
		pg. 18	1.17 - 1.18	pg. 19	
			1.20 - 1.24	pg. 22	
			1.01 - 1.014	pg. 23	
			Watch the video on Kinetic Molecular Theory.		
Astronomy					
	Topic	**Reading**	**Exercises**		
CAP Astronomy Booklet	Earth's Moon		Go to NASA's ViewSpace Interactives and select the "Forms of Light" topic. Adjust the slider control to visualize the infrared light image, and write a sentence explaining why it's possible to view the infrared light image but not the visible light image.		5 points
		pg. 33-36	Watch the video explaining Earthshine and write a short paragraph explaining the two best times of the day to observe Earthshine based on the Moon's phases.		5 points
			Complete the NASA SpaceMath exercises, "LRO Determines Lunar Cratering History".		5 points
			Skim-read through the link on Firefly Aerospace's Blue Ghost, the first world's first, successful commercial lunar lander, and watch the video at the bottom of the website.		5 points
Hybrid Mathematics & Science Fair Project					
Using Pythagoras' Theorem it's easy to show that a unit square has a diagonal of length $\sqrt{2}$. Using Pythagoras' Theorem again find the length of a diagonal of a unit cube.					5 points
Bonus: Find the length of a diagonal of a 4-dimensional unit hypercube.					
Experimentation: Continue conducting trials of your experiment (three trials total).					5 points
				Total	**50 points**