

STEM Spring 2026: Week 9				
Complete before the class on Mon, Mar 9th				
STEM Assembly				
- Supplies: Pencils & pens, folder with paper, scientific calculator				2 points
- Books: LifePac Science, CAP Astronomy, Lab Journal				
Be prepared to discuss in class an Old Testament example of the importance of having faith in God.				3 points
General Sciences				
	Topic	Reading	Exercises	
LifePac 9th Grade Unit 1	Nuclear Energy	pg. 41-44	4.1	pg. 45
		pg. 45-46	4.3 - 4.6	pg. 46-47
		pg. 47-48	4.8	pg. 49
		pg. 50	4.1	pg. 50
	Nuclear Applications	pg. 55-56	5.1 - 5.2	pg. 57
		pg. 58		
		pg. 60-61	5.9 - 5.13	pg. 62
			5.01 - 5.010	pg. 63
		5.015 - 5.017	pg. 64	
Astronomy				
	Topic	Reading	Exercises	
CAP Astronomy Booklet	Viewing the Planets	pg. 42-45	On Mar 7 Mercury reaches an inferior conjunction and on Mar 25 Saturn reaches a superior (solar) conjunction. Write a paragraph explaining these concepts including hand-drawn figures showing the relative positions of the planet, the Earth and the Sun.	5 points
			Read through the website NASA: The Solar System (page 2) and write out short definitions of the following: <i>minor planets, shepherd moons & occultation</i> .	5 points
			Watch the video on the spiral structure recently discovered within the Oort Cloud, and be prepared to discuss in class.	5 points
			Complete the NASA SpaceMath exercises: The Distance to the Martian Horizon.	5 points
Hybrid Mathematics & Science Fair Project				
Recall that fractal dimension, $D = \log(N) / \log(S)$ where N is the number of self-similar copies and S is the scaling factor of each copy. Find the fractal dimension of the box fractal and explain to your parents why its dimension is less than 2 but greater than 1.				5 points
Experimentation: Perform data analysis and complete your research paper.				5 points
Total				50 points