

STEM Spring 2026: Week 11					
Complete before the class on Mon, Mar 23rd					
STEM Assembly					
- Supplies: Pencils & pens, folder with paper, scientific calculator				2 points	
- Books: LifePac Science, CAP Astronomy, Lab Journal					
If you have a boat in a small pond and you throw a heavy rock from the boat into the water, does the water level of the pond rise, fall, or stay the same? Discuss this problem with your parents.				3 points	
General Sciences					
	Topic	Reading	Exercises		
LifePac 9th Grade Unit 2	Density	pg. 33-34		15 points	
		pg. 37-38	3.4 - 3.8		pg. 37
			3.9 - 3.13		pg. 38
			3.15 - 3.17		pg. 40
		pg. 40-41	3.19		pg. 42
		pg. 43	3.01 - 3.010, 3.011		pg. 46
		3.021 - 3.024	pg. 48		
Astronomy					
	Topic	Reading	Exercises		
CAP Astronomy Booklet	Beyond the Solar System	pg. 51-53	Draw a picture of the Big Dipper constellation including the binary star system of Mizar & Alcor (similar to the figure on pg. 52). Bonus +3: Include the names of all of the stars in the Big Dipper constellation.	5 points	
			Watch the video on the newly discovered, tightest quadruple star system ever observed and write a short paragraph explaining this recent discovery.	5 points	
			The Vernal (Spring) Equinox occurs this Fri, Mar 20 as the Sun rises exactly due East and sets exactly due West. Be prepared to discuss the Sun's apparent motion for an observer standing at the North Pole or the South Pole.	5 points	
			Complete the NASA SpaceMath exercises: A Pulsar Shot Out from a Supernova Explosion!	5 points	
Hybrid Mathematics & Science Fair Project					
In honor of Pi Day (Mar 14) watch the spirograph video demonstrating the irrationality of pi.				5 points	
Solve if each letter is a non-zero digit between 1-9: $\sqrt{(PI)} + E = \sqrt{(PIE)}$ Note that PI is a two-digit number and PIE is a three-digit number.					
Experimentation: Complete your research paper and your presentation.				5 points	
				Total	50 points