

STEM Spring 2026: Week 3							
Complete before the class on Mon, Jan 26th							
STEM Assembly							
<ul style="list-style-type: none"> Supplies: Pencils & pens, folder with paper, scientific calculator Books: LifePac Science, CAP Astronomy, Lab Journal 				2 points			
In "chemistry code" people greet each other by saying "hydrogen-iodine". Create your own secret word using "chemistry code".				3 points			
General Sciences							
Topic	Reading	Exercises					
LifePac 8th Grade Unit 2	Atoms & Molecules		On the Periodic Table of Elements the atomic number of Silicon (Si) is 14, the atomic mass is 28 and the electron configuration is (Ne) 3s2 3p2. Draw a model of the Si atom showing the protons, neutrons, electrons and orbits.			2 points	
	Elements, Compounds & Mixtures	pg. 37-38	3.7 - 3.16	pg. 39-40		13 points	
		pg. 40-42	3.17 - 3.23	pg. 42-43			
		pg. 43-45	3.26 - 3.27	pg. 46			
			3.29 - 3.35	pg. 46			
		pg. 47	3.36 - 3.45	pg. 47			
			3.021 - 3.026	pg. 50			
Astronomy							
Topic	Reading	Exercises					
CAP Astronomy Booklet	Earth and Night Sky	pg. 14-17	Today in Montana did the sun rise and set south or north of the celestial equator? On Mar 20 the sun will rise and set exactly on the celestial equator - what is the celestial name given to this date?			5 points	
			Define the celestial meridian of an observer.			5 points	
			Write a paragraph explaining Local Sidereal Time (LST). Bonus: Explain the equation: $Hour\ Angle\ (HA) = Local\ Sidereal\ Time\ (LST) - Right\ Ascension\ (RA)$			5 points	
			Watch the instructional video on Right Ascension and Declination.				
Hybrid Mathematics & Science Fair Project							
Bring to class one challenging mathematics question that you're unable to solve.						3 points	
Find the pattern and write the next term (Hint: say each term out loud): 1, 11, 21, 1211, 111221						2 points	
Procedure: Complete your procedure as a numbered list						4 points	
Materials: Complete your materials list						4 points	
Risk & Safety: Start writing your risk & safety section						2 points	
				Total		50 points	