

STEM Spring 2026: Week 3					
Complete before the class on Mon, Jan 26th					
STEM Assembly					
- <b>Supplies:</b> Pencils & pens, folder with paper, scientific calculator					2 points
- <b>Books:</b> LifePac Science, CAP Astronomy, Lab Journal					
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). <b>Bonus:</b> Explain the equation: <i>Hour Angle (HA) = Local Sidereal Time (LST) - Right Ascension (RA)</i>	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