

STEM Fall 2026: Week 2				
Complete before the class on Mon, Sep 21st				
STEM Assembly				
- Supplies: Pencil, folder with paper, scientific calculator				2 points
- Books: LifePac Science, CAP Robotics, Mathematics Book				
Watch the video <i>Optimus Navigating Around</i> then read Job 33:4 and write a sentence explaining the difference between a robot and the breath of life given to us by God.				3 points
General Sciences				
	Topic	Reading	Exercises	Grading
LifePac 7th Grade Unit 5	Natural Cycles	pg. 23-25	2.1-2.14	10 points
			2.15-2.19	
		pg. 28-29	2.24-2.35	
			2.36, 2.39-2.40	
		pg. 31-32	2.43-2.53	
			2.54, 2.57-2.58	
			2.01-2.010	
			2.011-2.025	
Robotics				
	Topic	Reading	Exercises	
Introduction to Robotics Booklet	Robotic Arms	pg. 13		
		Skim-read the NASA article on <i>Robonaut</i> , the first humanoid robot in orbit.		2 points
		Skim-read the site on <i>Neo's Robotic Hands</i> and watch the embedded videos. Be prepared to demonstrate in class what is meant by "Wrist Dexterity 3 DOF".		3 points
		Skim-read the site on <i>Backdrivability in Human Actuator Design</i> and watch the embedded videos. Write a paragraph explaining backdrivability.		5 points
Science Fair				
Read through the article <i>Science Fair Project Display Board Tips</i> with your parent(s).				
Using paper, construction paper, etc. create a title and attach it to your tri-fold poster board (replacing the title prototype that we made in class). Be creative!				5 points
Title: <i>Impact of Salinity on Buoyancy</i> , Name, Grade, Fall 2026				
Watch the video on <i>Clay Boats</i> then prepare an explanation on why the clay floats when it is formed into a boat shape (Hint: buoyancy is similar to the action of a playground seesaw). Recreate the video experiment at home with clay or playdoh.				5 points
Mathematics				
Bring to class one new math problem that you just learned to solve this week.				5 points