STEM Fall 2026: Week 9

Complete before the class on Mon, Nov 9th

STEM Assembly

- Supplies: Pencil, folder with paper, scientific calculator	2 points
- Books: LifePac Science, CAP Robotics, Mathematics Book	
If you could start a business that was guaranteed to be successful then what business would you start? Be prepared to explain in class.	3 points

General Sciences

	Topic	Reading	Exercises	Grading
LifePac 7th Grade Unit 7	Climate: Regional	pg. 25-26 (Vocab) pg. 28 (Fig. 9)	Is the Bitterroot Valley in the Montane Forests or the Taiga Forests?	10 points
		pg. 29-30	3.14-3.19	
			3.22-3.25	
		pg. 31-33	3.26-3.30	
			3.34-3.40	
		pg. 34-35	3.41-3.49	
			3.51-3.53	
		pg. 37-38	3.54-3.62	
			3.01-3.010	

Robotics

	Topic	Reading	Exercises	
Introduction to Robotics Booklet	Brush Bots	pg. 42-43	What is friction? Is friction necessary for the motion of a Brush Bot? Explain in a paragraph.	3 points
		Watch the video and skim-read the paper on Bristle Bot swarming to write out answers to the following questions: *What two types of Bristle Bots were studied?* *What is the collective motion of the two types of Bristle Bots once their population size exceeds the critical threshold?*		5 points
		Watch the video on Starling Murmurations and be prepared to discuss in class.		2 points
		Do NOT bring the miniArm Robotic Arm to the next class. Instead, work on completing steps 1.-10. of the Arduino Introduction. During the math study session on Thu night I'll bring my laptop and Robot Arm to demonstrate executing steps 1.-10.		

Science Fair				
Create an "Interpretation of Data" display and attach it to the middle-right of your posterboard. Include a bar chart of the volume displaced (ml) vs. salinity level.				5 points
Create a "Conclusions" display and attach it to the top-right of your posterboard.				5 points
Mathematics				
Use your calculator to answer the following question:				5 points
	Which quantity is greater: e^{π} or π^{e}?			