STEM Fall 2026: Week 10

Complete before the class on Mon, Nov 16th

STEM Assembly				
- Supplies: Pencil, folder with paper, scientific calculator				2 points
- Books: LifePac Science, CAP Robotics, Mathematics Book				
Watch the two videos on robots playing table tennis. Do you think that a bipedal robot will ever be able to beat the best table tennis players in the world? Will robots one day beat humans in every sport? Explain in a paragraph.				3 points
General Sciences				
	Topic	**Reading**	**Exercises**	**Grading**
LifePac 7th Grade Unit 7	Climate: Local	pg. 41-43	4.1-4.10	10 points
			4.11-4.14	
		pg. 44-46	4.16-4.30	
			4.31-4.35	
		Self Test 4	4.01-4.010	
			4.011-4.016	
			4.017-4.022	
		Watch the video on Mongolian Eagle hunters in the Altai Mountains and be prepared to discuss in class.		
Robotics				
	Topic	**Reading**	**Exercises**	
Introduction to Robotics Booklet	Sensory Robots	pg. 50-52	Unlike Bristle Bots, HexBugs are sensory robots. Explain in a sentence what this means.	3 points
		The NASA Robotic Technologies site lists five different robotic technology spinoffs. Select one of these technologies, click the link to read the detailed article and then write a paragraph explaining the technology.		5 points
		Refer to the Arduino Language Reference link showing the two primary code units: setup() & loop(). Explain to your parents the difference between these two code units.		2 points
		Do NOT bring the miniArm Robotic Arm to the next class. Instead, work on completing Arduino Lesson A.		

Science Fair				
Create a "Further Research" display and attach it to the bottom-right of your posterboard.				5 points
Read through the Science Fair Oral Presentation Guidelines and prepare a brief oral presentation. Write prompts on index cards to help you remember your oral presentation.				5 points
Mathematics				
Use the Babylonian Square Root Algorithm to calculate the square root of 1000 accurate to five decimal places. Show your calculation in each iteration.				5 points