STEM Fall 2026: Week 12

Complete before the class on Mon, Nov 30th

STEM Assembly				
- Supplies: Pencil, folder with paper, scientific calculator				2 points
- Books: LifePac Science, CAP Robotics, Mathematics Book				
Find a Bible verse that specifically mentions being thankful or giving thanks to God. Write down the Bible verse and be prepared to discuss the meaning of this verse in your life.				3 points
General Sciences				
	Topic	**Reading**	**Exercises**	**Grading**
LifePac 8th Grade Unit 4	Diet	pg. 21	List out the five food groups.	10 points
			2.5-2.8	
		Self Test 2	2.01-2.015	
			2.016-2.025	
Robotics				
	Topic	**Reading**	**Exercises**	
Introduction to Robotics Booklet	Robot Factory	pg. 66	Complete the reading and watch the video on How Robot Assembly Lines Work. Be prepared to discuss in class.	5 points
		Do NOT bring your Robotic Arm to the next class. Instead, work on completing Arduino Lesson C.		5 points
Science Fair				
Review all of the 7th Grade Sports science fair projects at Science Buddies. Write a sentence explaining which one is most interesting to you and why.				5 points
Develop a science fair project proposal for the MT State Science Fair on Mar 22, 2027. Include your general topic of interest and one simple question that you would like to test.				5 points
Mathematics				
The common decimal (base 10) numeral system uses 10 as the radix. Thus, 26 (base 10) represents 2 tens and 6 ones. However, in the octal (base 8) system the number 26 (base 8) represents 2 eights and 6 ones, i.e., **26 (base 8) = 22 (base 10)**.				
1. Convert 63 (base 8) to base 10				5 points
2. Convert 63 (base 10) to base 8				