

STEM Fall 2025: Week 10

Complete before the class on Mon, Nov 17th

STEM Assembly

Complete at least one day on the Weekly Gratitude sheet.

General Sciences

	Topic	Reading	Exercises	
LifePac 7th Grade Unit 4	Outer Planets	pg. 21-22	2.38 - 2.45, 2.48	pg. 23 & 34
		pg. 24	2.49 - 2.55, 2.58	pg. 24 & 34
		pg. 25-26	2.59 - 2.60, 2.65	pg. 26 & 34
		pg. 27	2.66 - 2.70, 2.74	pg. 27 & 34
	Dwarf Planets, Asteroids & Comets	pg. 28	2.75 - 2.81	pg. 29
		pg. 29	2.83 - 2.87	pg. 29
			2.90 - 2.96	pg. 32
			2.99 - 2.104	pg. 33
			2.01 - 2.023	pg. 35-36

Aerospace

	Topic	Reading	Exercises	
AEX II Activity Booklet	Relativistic Time Travel		Watch the video on Einstein's theory of Special Relativity	
			Explain the Twin Paradox (and it's resolution) to your parents	
			Watch the video on the Hubble telescope identifying faster-than-light galaxies	
			Watch the video on recent advances in Warp Drive physics	
			Review the NASA Astronomy Picture of the Day Archive and look up the picture from your most recent birthday	
	SR-71 Blackbird	pg. 96-98	Gather building materials for the in-class construction of the SR-71 Blackbird	

Hybrid Mathematics

Refer to the figure demonstrating that $1+2+3+4 = (25-5)/2 = 10$.

Use the same idea to calculate $1+2+3+...+14$, and then check your result with a calculator.

Bonus: Use the same idea to derive a general formula for $1+2+3+...+n$.