

|   |                                      |           |  |           |
|---|--------------------------------------|-----------|--|-----------|
| STEM Fall 2025: Week 8  |                                      |           |  |           |
| Complete before the class on Mon, Nov 3rd   |                                      |           |  |           |
|   |                                      |           |  |           |
| STEM Assembly   |                                      |           |  |           |
| Complete at least one day on the Weekly Gratitude sheet.  |                                      |           |  |           |
|   |                                      |           |  |           |
| General Sciences  |                                      |           |  |           |
|   | Topic                                | Reading   | Exercises  |           |
| LifePac 7th<br>Grade Unit 3   | Newtonian Gravity                    | pg. 47    | 2.32 - 2.35  | pg. 47-48 |
|   | Celestial Terms                      | pg. 48-50 | 2.36 - 2.39, 2.42  | pg. 51    |
|   | Astronomical Tools                   | pg. 55-57 | 2.48-2.50  | pg. 58    |
|   | Astronomy                            |           | 2.04-2.035   | pg. 61-62 |
|   |                                      |           |  |           |
| Aerospace   |                                      |           |  |           |
|   | Topic                                | Reading   | Exercises  |           |
| AEX II Activity<br>Booklet  | International Space<br>Station (ISS) |           | Watch the video of NASA's Tour of the ISS  |           |
|   |                                      |           | Watch the video of Life on the ISS   |           |
|   |                                      |           | Open the livestream from the ISS and rewind to different points in the video           |           |
|   |                                      |           | Read the NASA Overview of the ISS and bring in one fascinating fact to class           |           |
|   |                                      |           | Skim-read the Reference Guide to the ISS and find the most interesting figure or image |           |
|   | Pressure Suits                       | pg. 84-85 | Read about pressure & pressure suits   |           |
|   |                                      |           |  |           |
| Hybrid Mathematics  |                                      |           |  |           |
| Use the image of nested triangles to determine the infinite sum: $\frac{1}{2} + \frac{1}{8} + \frac{1}{32} + \frac{1}{128} + \frac{1}{512} + \dots$ |                                      |           |  |           |
| Use your calculator to calculate the first few terms of the infinite sum to check your answer.  |                                      |           |  |           |