Honors Physics, October 30 - November 3, 2023

| Day | Academic Objective | Activities | Homework/Assessments | Biblical Integration |
|---|---|---|---|---|
| **M** | Describe the relationship between weight, friction and normal force | Discuss chapter 4, pg. 135 - 141 "Weight, Friction, and Normal Force" - ***On an Incline*** | • *Pg. 146 - 149: 27,* **29**, **36**, **39**, **40**, **41**, **46 - 48**, **52**<br>• Web post due by Friday 11:59 PM **Topic – STEM** | Students will understand that it is by God's plan and purpose that we live and move and have our being by describing the role and result of forces that oppose motion |
| **TU** | Describe the relationship between weight, friction and normal force | Review "Weight, Friction, and Normal Force" Problems | • Newton's Law Project | |
| **W** | Investigate the relationship between weight, friction and normal force | Present **Newton's Law Projects**<br>**LAB:** Coefficient of Friction | • | |
| **TH** | Investigate the relationship between weight, friction and normal force | **LAB:** Coefficient of Friction | • | |
| **F** | Describe and calculate the effect of net vertical forces | Discuss net vertical forces - *elevator problems* | • *Pg. 143 - 146: 42 - 44* ***and*** Vertical Forces Worksheet<br>• Web post due by Friday 11:59 PM **Topic – STEM** | |

***2ND Term Lab Reports*** *due Monday, October 30, by 11:59 PM – submit as PDF 2X*

**Newton's Law Project** - *due Wednesday, Nov. 1, by 8:00 AM*

- *Create a two-page doc: first page - the image, second page – your description/explanation of the image*
- *Convert to PDF and submit* ***2X***

***TEST*** *on chapter 4 Friday, November 10*

*"The LORD is my strength and my shield; my heart trusted in him, and I am helped; therefore, my heart greatly rejoices; and with my song will I praise him." Psalm 28:7*