

| Day | Academic Objective | Activities | Homework/Assessments | Biblical Integration |
|-----|---|--|---|--|
| M | Investigate the conservation of energy | LAB: Inclined Planes & Conservation of Energy – Submit as PDF, 2X | <ul style="list-style-type: none"> Pg. 183 - 187: 23 – 34, 39 – 43 thLAB: Conserv. of Energy – Answer on sheets, Due Friday Science In the News due Friday – topic, STEM Web post due by Sat., 8:00 A.M. | Students will understand that God continuously sustains all things throughout the present by investigating the conservation of energy. |
| TU | Solve problems using the work energy theorem | Review Work/Energy Problems | <ul style="list-style-type: none"> Pg. 183 - 187: 46 – 49, 51 Print & Read LAB: Roller Coaster AND DRAW design for roller coaster!! | |
| W | Use the conservation of energy to solve a design challenge | Engineering Design Challenge: Roller Coaster | | |
| TH | Describe simple machines, mechanical advantage and efficiency | Discuss chapter 7 , pg. 250 - 252 "Simple Machines" | <ul style="list-style-type: none"> Pg. 265- 267: 30-31, 35-36, 45-48 Science In the News due Friday – topic, STEM | |
| F | Define and calculate power | Discuss chapter 5, pg. 179 - 181 "Power" LAB: Power - (Submit as PDF 2X) | <ul style="list-style-type: none"> Rev. Worksheet 2 – Circled questions in both Groups A & B (Answers on separate sheet) Web post due by Sat., 8:00 A.M. | |

TEST on chapter 5 Wednesday, December 9

(All Lab Reports due Thursday, December 10, 8:00 A.M.)

(Extra credit due Friday, December 11)

"They borrowed a manger of hay for His bed; Jesus my Savior;
 No soft, downy pillow, no warm cradle spread for Jesus, my Lord.
 His were the planets and stars in the sky;
 His were the valleys and mountains so high;
 His, all earth's riches from pole unto pole;
 But He became poor to ransom my soul."
Byron Carmony