Physics G

Work and Energy

(Chapter 5 Syllabus)

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| Block | Class | Assignments |
| 1 Jan 28/29 | -Tests Back  -Why it is important to consider the weight of a barrel of bricks.  -It's all Uphill lab  -Calculating work  -Work and Weight | Your smiling face  **Turn In:** It's all Uphill (in class)  **Read:** 5.1 |
| 2  **Jan 30/31** | -Power  -Power, work and weight Jambalaya!! | **Check:**  W+P: 1-6, P5A: 1,3[[1]](#footnote-1)  **Read:** 5.4 |
| 3  **Feb 3/4** | -Efficiency  -Energy  -Kinetic energy  -Potential Energy | **Check:**  W+P: 7-15 P5F: 1(65 kW),3  **Read:** 5.2  **Turn In:** Work and Power+P5A 1,3, P5F 1,3[[2]](#footnote-2) |
| 4  **Feb 5/6** | -Conservation of energy  -Staring death in the eye  -Solving conservation of energy problems (WB) | **Check:**  Energy:1-9  **Read** 5.3 |
| 5  **Feb 7/10** | -Work on conservation of energy problems (E2:1-6)  **-Quiz on Work and Power** | **Check:**  Energy: 10-15  **Turn In:** Energy |
| 6  **Feb 11/12** | -Human Power output lab (explained)  -Get Human Power output data  -Work on conservation of energy problems (E2:7-10) | **Check:** Energy 2: 1-6 |
| 7  **Feb 13/14** | -Roller coasters explained  **-Quiz on Energy**  -Work on Human Power output calculations  -Work on Roller coasters | **Check:**  Energy 2: 7-10 |
| 8  **Feb 18/19** | -Intro to Trebs  -Nova: Trebuchet video  -Trebuchet simulations | **Turn In:** Human Power Output Lab |
| 9  **Feb 20/21** | -Finish Human Power output  -Play with Roller coasters  -Mock Test | **Check:**  MRP[[3]](#footnote-3): 49, 51, 62(h = 1.45 m) P5E: 1  **Turn In:** Energy 2 + MRP: 49, 51, 62(1.45 m, 1.98 m/s, 5.33 m/s) + 5E 12 |
| 10  **Feb 24/25** | -**Test on Energy** |  |

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| Assignments:   * 3 Worksheets + book problems:   + *Work and Power* (15) P5A 1,3, P5F 1,3 (4) + 2 stamps /42 pts   + *Energy* (15) + 2 stamps /34 pts   + *Energy 2* (10) MRP 49, 51, 62 , P5E: 1 (4) + 3 stamps /34 pts * 1 Lab:   + *Human Power Output lab* /30 pts * 2 Quizzes:   + Quiz on Work and Power /10 Quiz Pts   + Quiz on Energy /10 Quiz Pts * 1 Test on Work And Power | Handouts:  This Syllabus  Worksheet-WorkAndPower  Worksheet-Energy  Worksheet-Energy 2  Lab-HumanPowerOutput |

1. P5A means Practice 5A (it’s on page 170 in your book) [↑](#footnote-ref-1)
2. Staple the book problems to the worksheet problems [↑](#footnote-ref-2)
3. MRP means Mixed Review Problems – They start on page 196. [↑](#footnote-ref-3)