Physics G

Work and Energy

(Chapter 5 Syllabus)

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| Block | Class  | Assignments |
| 1Jan 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)