Physics G

Work and Energy

(Chapter 5 Syllabus)

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| **B/A** | In Class | Due on this class | If you miss this class |
| **1**  **Mar** 9/12 | -Why it is important to consider the weight of a barrel of bricks.  -It's all Uphill lab  -Calculating work  -Work, Weight and Friction | **Turn In:** It's all Uphill (in class lab) | **Read:** 5.1  **Watch:** Videos A |
| **2**  **Mar**  **13/14** | -Power  -Power, work and weight Jambalaya!!  -Efficiency |  | **Read:** 5.4  **Watch:** Videos B,C,D |
| **3**  **Mar**  **15/16** | -Work on Jambalaya Quizlette (Jambalette) | **Turn In:** Jambalette | **Read:** 5.2  **Watch:** Videos B,C,D |
| **4**  **Mar**  **21/22** | -Energy  -Kinetic energy  -Potential Energy  -Conservation of energy  -Staring death in the eye | **Check:** P5.1#1,2  **Turn In:** P5.1#1,2 | **Read** 5.3  **Watch:** Videos E, F, G, K |
| **5**  **Mar 23/**  **Apr 3** | -Solving conservation of energy problems  -Work on Conservation of Energy Quizlette | **Check:** P5.0#1,3,5,7,9,11,13,15,17  **Turn In:** P5.0#1,3,5,7,9,11,13,15,17 | **Read** 5.3  **Watch:** Videos E, F, G, K |
| **6**  **Apr**  **4/5** | -Finish Conservation of Energy Quizlette | **Turn In:** Conservation of Energy Quizlette | **Watch:** Videos E, F, G, K |
| **7**  **Apr**  **6/9** | -Get Human Power output data  -Pass out FA 5.0, 5.1, 5.2  -Work on Human Power output calculations | **Check:** P5.2#1,2 | **Watch:** Video on Human Power Output web page  Have someone time you climbing stairs (when you get back) |
| **8**  **Apr**  **10/11** | -Play with Roller coasters?  -Finish FA 5.0, 5.1, 5.2  -Finish Human Power Output | **Check:** P5.2#3,4  **Turn in:** Human Power Output lab | **Watch:** Videos on the FA sites |
| **9**  **Apr**  **12/16** | **Summative assessments on:**  **5.0 - Work and Energy**  **5.1 - Efficiency and Power**  **5.2 - Conservation of Energy** | **Turn In:** P5.2#1-4  **Turn in:** FA 5.0, 5.1, 5.2 |  |
| **Apr**  **17/18** | **MOMENTUM!!!!!!!** |  |  |

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| Assignments:   * 2 Labs:   + It's All Uphill/15 pts   + *Human Power Output lab*/30 pts * 3 formative problems sets:   + P5.0#1,3,5,7,9,11,13,15,17 (18 pts)   + P5.1 #1,2/(16 pts)   + P5.2 #1-4/ (32 pts) * 3 Formative/Summative Assessments:   + 5.0 - Work and Energy   + 5.1 - Efficiency and Power   + 5.2 - Conservation of Energy | Handouts: |