|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class # | Gryffindor (B) | Hufflepuff (D): | Ravenclaw (E): | Slytherin (F): |
| 3 | Fri 9/7 | Thurs 9/6 | Fri 9/7 | Fri 9/7 |
| 4 | Mon 9/10 | Fri 9/7 | Mon 9/10 | Mon 9/10 |
| 5 | Thurs 9/13 | Wed 9/12 | Thurs 9/13 | Wed 9/12 |
| 6 | Fri 9/14 | Thurs 9/13 | Fri 9/14 | Fri 9/14 |
| 7 | Mon 9/17 | Fri 9/14 | Mon 9/17 | Mon 9/17 |
| 8 | Tues 9/18 | Tues 9/18 | Wed 9/19 | Tues 9/18 |
| 9 | Thursday 9/20 | Wed 9/19 | Thus 9/20 | Wed 9/19 |

Test on Monday Sept 24 during Academic Block

Check the above list to see what exact HW you should do which evening. In general, this second week of classes you will be doing assignments 4, 5, and 6.

## Night 3: Statics and Introduction to Motion.

1. Learn about motion and velocity
   1. <http://blogs.bu.edu/ggarber/bua-py-25/introduction-to-motion/>
   2. OR YouTube Video <http://youtu.be/uiWAdKVi0Z8>
   3. OR Read Textbook Chapter 3 pp 36-38 (on Speed, Velocity), Appendix A pp. 665 (US Customary System, System International, Appendix B p 668 (first column only) AND Workbook p iv (How to use This Book), Chapter 1 pp 1-2 (Speed Velocity, NOT acceleration), Read Examp 1-3
2. Read about Methods for Measuring Velocity on Blog
3. InterLACE Questions on Statics
4. Web Assign Questions on Equilibrium s
5. Learn about LEGO Mindstorm Robots and Programming in LabView: watch you tube video at https://sites.google.com/site/robtorok/lvlm-tutorials/1-your-first-program

## Night 4: Motion and graphing

1. Learn about motion and graphing
   1. Read Blog <http://blogs.bu.edu/ggarber/bua-py-25/velocity-and-position-graphs/>
   2. OR YouTube Video <http://youtu.be/X-y3rnRj4gw>
   3. Or Read Textbook Appendix C pp 671-673 (Graphs, Cartesian, Area and Slope)
2. InterLACE Questions on Motion
3. Workbook Questions: Write the answers IN your workbook: Chapter 1 pp 5-6 Do Ex. 1-4
4. Update your lab notebook: Record a description of your experiment in your lab notebook. Describe what you do. If you programmed a computer describe your program. Include sketches. Include results and an analysis compared to other groups methods. If you were able to get any results, yet. You may print out photos from InterLACE and edit any types entries as needed.

## Night 5: Graphing motion and acceleration

1. Learn about acceleration
   1. Read the Blog page <http://blogs.bu.edu/ggarber/bua-py-25/acceleration/>
   2. OR YouTube Video <http://youtu.be/wyqwwnkunxs>
   3. Or Read Textbook Chapter 3 pp 39-41 (acceleration, Galileo Inclined Plane), Appendix B pp 668-670 (Computing velocity and distance on inclined planes and when acceleration is constant) AND Read Workbook p 2 (Acceleration) and p 5 (Example 5)
2. InterLACE Questions on graphs of Constant V
3. Web Assign Questions on velocity
4. Update lab notebook

## Night 6: Accelerating motion

1. Learn about Kinematic Equations and constant accelerating motion
   1. Read the Blog page http://blogs.bu.edu/ggarber/bua-py-25/kinematics-equations-and-constant-acceleration/
   2. OR YouTube Video (not ready yet but will be soon)
   3. Or Read Textbook Chapter 3 pp 41-45 (How fast, How far, How quickly How Fast Changes) AND Read Workbook Chapter 2 p 8-9 (Free Fall) and (Examples 6-9)
2. InterLACE Questions on acceleration
3. Workbook (do problems in the workbook) pp6-7 Exercises 5-8
4. Update lab notebook

## Night 7: Free fall and Inertia

1. Learn about Galileo and free fall and Newton’s 2nd Law

Read Textbook Chapter 4 pp 56-58 (Newton’s second law of motion, when acceleration is free fall), Chapter 9 pp 151-152 (Newtonian Synthesis, Universal Law of gravity) AND Workbook Chapter 7 p 97 and p101.

1. InterLACE Questions on Free Fall
2. Workbook p 10 Exercises 9-11
3. Web Assign Questions on Free Fall

## Night 8: Lab Report Guidelines

1. Learn about writing a lab report on the Blog Page <http://blogs.bu.edu/ggarber/bua-py-25/introduction-to-physics/types-of-assignments/lab-report-guidelines/>
2. InterLACE Questions on Free Fall Problems
3. Workbook p 11-12 Exercises 12-14
4. Web Assign Questions on Free Fall Problems
5. Start thinking about lab report

## Night 9: Start lab report

1. Write an outline for the introduction
2. Find primary sources, start doing background research
3. Make graphs, analyze data