

AP-B Physics

Week of January 6th

Website: <http://www.tarleton.edu/physics/APPhysicsB/index.html>

1. Monday January 6th

In Class – Teacher Discretion if class is in session

Outside of Class:

a) Review Material in Chapter 11 and start reading chapter 12

2. Tuesday January 7th

In Class – Problems on Chapter 11 (waves on string, Snell’s law, etc) & discuss material in Chapter 12

Outside of Class:

a) Read Sections 12.1-12.4 of Giancoli

c) Watch Sound Module Videos

b) Work on Homework as time permits (Due Saturday)

3. Wednesday January 8th

In Class – Wave Intensity Lab

Determine the relationship between light intensity and distance to a detector for a point source (Vernier light source) and a directional source (laser) as a function of distance using Vernier Optics bench equipment with light detector and Logger Pro. Students should measure the light intensity for several different distances. In groups of 3-4 students, each group should plot the data and then model it using LoggerPro. For next Monday, each group should have a 10 minute presentation explaining the experimental procedure used, theory presented in textbook, the plotted data, and their model with analysis.

Outside Class:

a) Read Sections 12.3-12.7 in Giancoli

b) Work On Homework as Time Permits (Due Saturday)

4. Thursday January 9th

In Class – Discuss Student Questions on Chapter 12 Material and Work Problems

Outside Class:

a) Finish Chapter 12 and Read Sections 13.1-13.2 in Giancoli

b) Work on Homework as time permits (Due Saturday)

5. Friday January 10th

In Class – Teacher Discretion if school in session (work extra non-homework problems, etc.)

Outside Class:

a) Complete Homework (Due Saturday)

b) Read Sections 13.3-13.6 in Giancoli

6. Monday January 13th (No-Test)

In Class – Student groups out-brief their lab results (Show which result(s) match the theory in the textbook and explain any discrepancies)