

Physics 105, Sound and Music - Assignments for Wed, Nov 16 to Wed, Dec 7, 2011

Read Chapter 11 “Brass Instruments” in Rossing, Moore and Wheeler.

Again, try to understand the arithmetic but don't need to memorize equations and calculations. Concepts are most important.

Study the glossary. If any concept bothers you, be sure to ask in class. Note that some items are repeats from former chapters. These are very important concepts to try to understand.

Write out the answers to Review questions p.243. no's 1,2,3,4,5,8,9,10.

Write out answers to Exercises p 244. no's 1,2,3.

For discussion Wed, Nov 30. **To be handed in following Mon, Dec 5.**

Read Chapters 12 and 13 “Woodwind Instruments” and Percussion Instruments in Rossing, Moore and Wheeler.

Again, try to understand the arithmetic but don't need to memorize equations and calculations. Concepts are most important.

Study the glossaries. If any concept bothers you, be sure to ask in class. Note that some items are repeats from former chapters. These are very important concepts to try to understand.

Write out the answers to Review questions p.269. no's 2,3,4,5,7,8,9,12.

Write out answers to Exercises p 270. No's 1,5,6.

Hand in Wed, Dec 7

Write out the answers to Review questions p.307. No's 1,2,3,4,15,16.

Hand in Wed Dec 7.

If time permits, we will discuss aspects of Ch 14 “Keyboard Instruments” and parts of Ch 15 through 17 “The Human Voice”.

**On the last day of class Fall Semester, Wed Dec 7 you should bring in your final project for demonstration. We will meet in one of the labs where we will make a video clip, listen to, and evaluate your instrument. I do not collect them.**

**Important! You should also prepare a short (approximately one page) essay on your instrument. Include Construction techniques. Physics involved in design . In particular sound vibration source, resonance, efficient radiation of sound, etc. Include any concepts that you learned in construction of this project.**

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