Unit 4 Outline – Waves

SPH3U

Test on Tuesday, December 20th
Lab due on Friday, December 16th
Musical Device Project due on Wednesday, January 11

Day	Section	Homework (peer/self-marked)	Complete	Level
1	8.1 and 8.2 – Vibrations	Read 8.1 and 8.2		
	and Waves, and Types of	Pg. 380 #1, 2, 4, 5		
	Mechanical Waves	Pg. 384 #1-3, 5, 6, 9		
2	8.3 – Wave Characteristics	Read 8.3		
		Handout #1-12		
3	8.4 – Wave Speed	Read 8.4		
		Pg. 389 #1-3		
		Pg. 391 Practice (top) #1-3		
		Pg. 391 (bottom) #2, 4-7		
4	8.5 – Properties of Sounds	Read 8.5 and 8.6		
	Waves	Pg. 393 #1-3		
		Pg. 394 #2, 3		
		Pg. 397 #2, 4, 5, 9 Challenge: #10		
		Pg. 399 #2		
5	9.1 – Interference of Waves	Chapter 8 Quiz		
		Read 9.1		
		Pg. 419 (bottom) #1, 2		
		Handout #1, 2, 3, 6-8		
6	9.2 – Waves at Media	Read 9.2		
	Boundaries	9.2 Handout #1-5, 7-10		
7	9.2 – Waves at Media	Pg. 425 #2, 3		
	Boundaries (Continued)	Pg. 426 #1, 2, 4-7		
8	Resonance in a Closed Air	Pre-lab Quiz		
	Column Lab	See lab handout (all answers on this handout) and		
		Excel graph printout		
9	Lab (Continued)	See lab handout (all answers on this handout) and		
		Excel graph printout		
10	9.3 and 9.4 – Beats,	Read 9.3 and 9.4		
	Damping and Resonance	Pg. 429 #1-3		
		Pg. 432 #1-3		
11	9.5 – The Doppler Effect	Chapter 9 Quiz (9.1-9.4)		
		Pg. 435 Practice (top) #1		
		Pg. 435 #1-4		
12	Review	Chpt. 8 Review:		
		pg. 408-411 #1-5, 7-17, 21, 23, 25, 26*, 27,		
		29*, 30*, 33*, 37, 41*, 42, 44, 48*, 50*		
		Chpt. 9 Review:		
		pg. 442 #1, 2, 4-28, 31 (terms)*, 32, 36,		
		38a*, 41, 47*, 48*, 49*, 57*, 58abc*		
13	Begin Unit 5 -			
	Electromagnetism			
14	Test – Tues., Dec. 19			

Level 4: Completely understand; got every question correct.

Level 3: Mostly understand; got almost all questions correct.

Level 2: Have few questions; got a few things right, a few things wrong.

Level1: I still don't understand this; got only a couple things right.

Level R (Review): I do not get this at all; did not get anything right.

If you are level 1 or 2, you will want to try some more questions for practice before the test. You may also want to ask for help outside of class or to attend Physics Help. If you are level R, you should definitely ask for help outside class or attend Physics Help.