Student Learning Outcomes: At the end of this course students will be able to:	Course Topic: The following topics will address this outcome.	Evaluation of Outcome: This evaluation will be primarily evaluated by:
- Demonstrate knowledge of the physics of sound and the measurement of its dimensions, and apply basic principles of acoustics to human hearing and speech by carrying out screening and prevention procedures during evaluation of hearing disorders	Chapter 11: Guidelines for Audiologic Screening: ASHA Panel on Audiologic Assessment	Practical assignment: The student will be graded by the instructor, or teaching assistant using the rubric
- Demonstrate knowledge of the physics of sound and the measurement of its dimensions, and be able to apply basic principles of acoustics to human hearing and speech by calculating out the signal to noise ratio in a classroom setting	Chapter 4: Classroom acoustics: ASHA endorsement of the ANSI S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools standard.	Practical assignment: The student will be graded by the instructor, or teaching assistant using the rubric

0 No attempt S	upervisea	nearing sci	reen, adult	T40		
BEHAVIOR	RATING					
Room set-up and equipment set-up	0	1	2	3		
Checked for calibration sticker	20 July 20 Jul			pro St. (Self-2)		
Performed listening check of audiometer						
Place client out of view of cues		4507.00	8 - Sept. (1980)			
Set-up of audiometer						
Fix appropriate intensity 25dB +40						
Set frequency at 1,000 for start		in a sure of the sure	200			
Case history interview Hearing Handicap Scale						
Five cardinal Signs						
Administered / scored handicap scale			F - 130 M 55 A 5			
Screening instructions	<u>- Angelina y Piliti Parting Pa</u>	professor Communication than because of the first control to topological states and the topological states and the states of the	Above to a seed and the first half New high a County to the seed of the seed o	Commence of the Commence of th		
What to listen for				2 An S. 12 . 2 . 2.		
How they should respond		e territorio de la compa	age services of the			
Earphone placement						
Placed on correct ears						
Proper position	Complete Action					
Screening procedure						
Fix intensity						
Sweep frequency for each ear		Market Market Street	de para la companya de			
Change ear						
Report Results						
Proper recommendation based on results						
Report results to client in professional manner						
TOTAL /48						

Date:

Group members:

RATE

0--3 SCALE 3 No improvement necessary

Supervisor: \_\_\_\_\_

0 No attempt	Supervi	sed heari	ng scree	n, school	l-age	
BEHAVIOR		RATING				
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Checked for calibration sticker				d en productive	Paris de la company	
Performed listening check of audiometer						
Place client out of view of cues						
Set-up of audiometer						
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Set frequency at 1,000 for start						
Screening instructions						
What to listen for		3.3	E <sub>1</sub> (6. )	uga saka 155		
How they should respond						
Earphone placement						
Placed on correct ears						
Proper position						
Screening procedure						
Fix intensity						
Sweep frequency for each ear		5,000,000		Carried Control	ergya, ce, co se	
Change ear						
Report Results						
Proper recommendation based on results						
Report results to client in professional manne	er					
TOTAL /4						
					1	

Group members:

0--3 SCALE

3 No improvement necessary

RATE

Supervisor\_

Date:\_\_\_\_\_

Audiometry: Sound level assignment				
Learning objective: -Apply the term signal to noise ratio (s/n) to a classroom situation -Use a basic sound level meter -Apply the inverse square law -Appreciate the ASHA recommended signal to noise level in a classroom setting for children with hearing loss.				
Check out a sound level meter or use an application (app) on your own device (iPad or smartphone). There are several that are free or very inexpensive \$.99.				
You will need to take 2 separate decibel measurements.  1. Measure the decibel level of a signal (teacher's voice one foot from their mouth)  2. Measure the decibel level of background noise.  The comparison of the two values is a ratio the signal to noise ratio.  You will need to measure the distance between the signal (teacher) and where you measured the background noise.				
recommend Decibel Meter Pro by Performance Audio. It was 99cents in the iTunes App store. You an set the weight scale to A.				
You may setup the situation you measure, one student plays teacher while other takes the measure. It may even be a real classroom situation.				
Scenario				
Classroom: Measure teacher's voice (signal) 1foot away, note the dB level Measure constant background noise of the classroom where a child sits in the class. Note the level when the class is full of students but not at a time when the teacher is talking. Note the dB level. Measure how far (in feet) the teacher (signal) is from where you measured.				
Now the math: Calculate the signal / noise ratio. Is it at an acceptable level for classroom instruction?				
Name:Name:				
Signal level 1 foot awaydB SPL Constant background noise of classroomdB SPL Distance from where signal was measured to place where background measurement was made, feet With the above information and understanding the inverse square lawcalculate what the signal level of the teacher's voice would be at the place of background measure: dB SPL Show your work below or on the back:				

Is the measured signal to noise ratio acceptable for classroom instruction? Yes? No? Support by sighting your reference:

Report the signal to noise ratio \_\_\_\_\_ signal / noise