A Guide to the Functional Listening Evaluation

Cheryl DeConde Johnson

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www.adevantage.com

Course Materials:

Video Acknowledgement: Mandy Longo at The Resource Materials and Technology Center for the Deaf/Hard of Hearing (RMTC-DHH), St Augustine, FL (FLE-2016); these videos are no longer available at RMTC-DHH.





FLE: Background

- Developed in 1993 in response to IDEA functional evaluation requirement by Johnson & Von Almon
 - 34 CFR 300.6 Assistive technology service includes
 - (a) an evaluation of the needs of a child with a disability, including a **functional** evaluation of the child in the child's customary environment
 - 34 CFR 300.304 Evaluation "a variety of assessment tools and strategies to gather relevant functional, developmental, and academic information about the child including information provided by the parent"
- Based on suggested paradigm by Ying (1990), and Ross,
 Brackett, and Maxon (1991)

What is the purpose of the FLE?

- To identify factors affecting classroom listening
- To identify a student's listening and comprehension ability under various classroom listening conditions
- To provide evidence for accommodations (HAT, acoustical treatments, communication strategies, sign support) and services (counseling, HA/HAT orientation and training, teacher in-service)
- To increase teacher implementation of recommended accommodations
- To evaluate and validate the effects of accommodations and supports on classroom listening

What does the FLE contribute to a student's ability to function in the classroom?

- Informs accommodations that are needed
 - Seating position
 - Visual input
 - Access to teacher's instructions
 - Access to peers
 - Use of hearing or other assistive technologies
- Instruction: Informs classroom communication management strategies for teacher
- Student: Self-determination/selfadvocacy
 - implications of various auditory and visual communication access challenges (A-V)
 - Provides evidence for adopting selfadvocacy strategies for communication access

Why is auditory access important?

- Most students use audition to communicate and access instruction
- Hearing aids and CIs do not mitigate the problems of classroom listening
 - Audibility may improve but not intelligibility in adverse listening situations
 - +15- 20dB SNR improvement is needed for most students
 - Hearing Assistance Technology (HAT) can overcome many listening factors only if implemented correctly and consistently
- Output (e.g., learning) is only as good as the input (e.g., instruction)...and the access to the instruction

Assessment

- 1.Is the child ready/able to learn in the classroom learning environment under consideration?
- 2.Is the learning environment ready to accommodate the student?



Learning Environment



Factors Affecting Classroom Listening

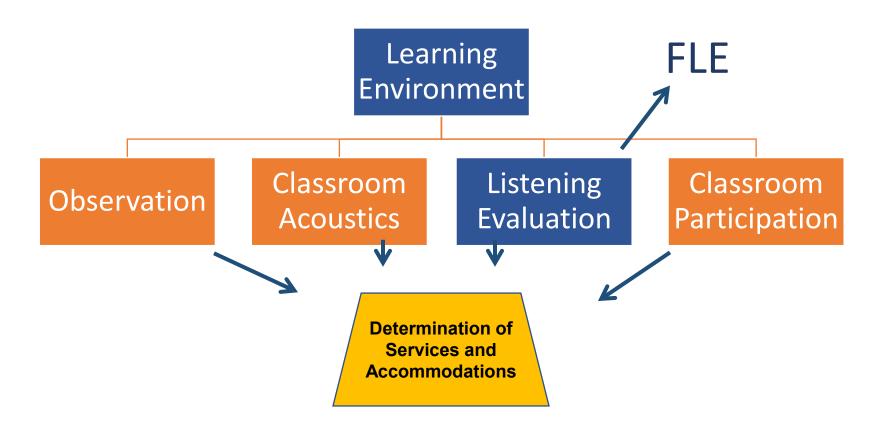
Internal

- Attention
- Motivation
- Familiarity with vocabulary and content
- Audibility & Speech Perception

External

- Noise
- Distance
- Visual Access
- Lighting
- Seating
- Instructional Strategies used by Teacher

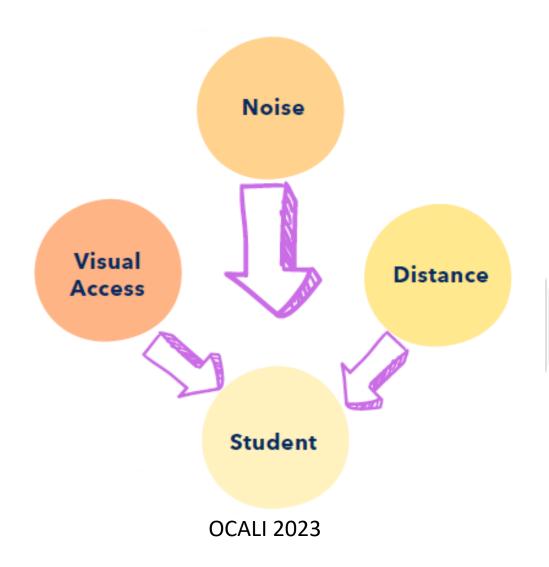
Classroom Listening Assessment Overview





What is the FLE?

A tool designed to assess the impact of noise, distance, and visual access in the student's customary listening environment.



Who can administer the FLE?

- Educational Audiologists
- Speech and Language Pathologists
- Teachers of the Deaf/Hard of Hearing

Prior to administration, individuals should have training with the evaluation as well as an understanding of the communication implications of various levels of hearing and how they impact performance in the classroom.

Steps to Preparing and Performing the FLE

- 1. Obtain the necessary materials
 - 2. Prepare the FLE set-up
 - 3. Check student's personal hearing instruments if used 4. Conduct the FLF

Collect the FLE Materials











FLE
Protocol &
Stimulus
Materials

Listening Hoop

6-7 " diameter Sound Level Meter

Phone with NIOSH app

Measuring
Tape or
premeasured
cord

3-12 Ft

Classroom Multi Talker or Cafeteria noise file

10 min length

Optional: Masking Tape, Bluetooth speaker

Materials/Equipment Options

- Protocol: auto-calculating, fillable pdf
 - https://www.phonakpro.com/content/dam/phona kpro/gc hq/en/resources/counseling tools/docum ents/child hearing assessment functional listenin g evaluation fle 2017.pdf
- Noise File
 - https://www.youtube.com/watch?v=mYt6-Soa9IE, https://www.youtube.com/watch?v=h95EMzTulkl, Computer, iPad, iPod, iPhone
- Sound Level Meter or Sound Level App
 - NIOSH is recommended
 - Computer, iPad, Phone
 - App needs "A" weighting
- Word/Phrase/Sentence materials
 - Hand scoring: worksheet or computer
 - Autocalculating

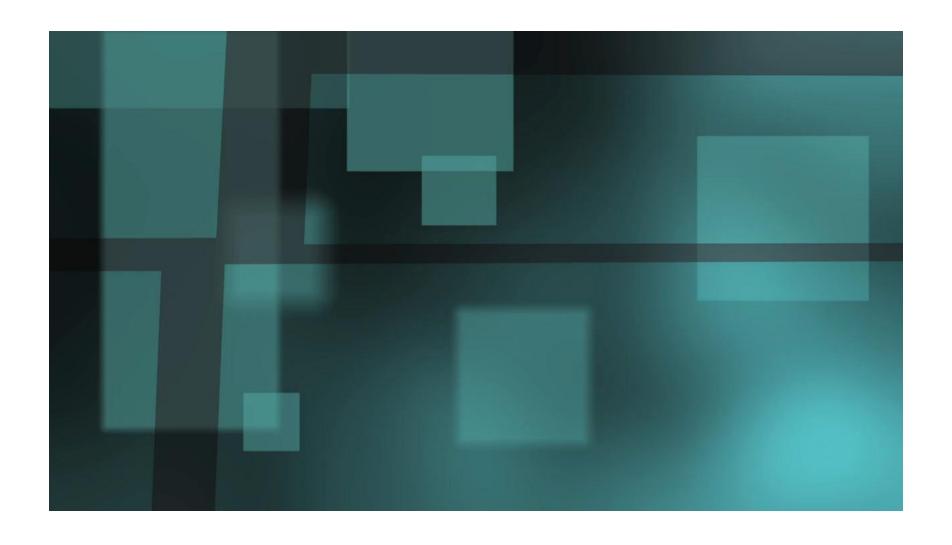


Functional Listening Evaluation (FLE)

by Cheryl DeConde Johnson, Ed.D.

PHONAK life is on Obtain the necessary materials
 Prepare the FLE set-up
 Check student's personal hearing instruments if used
 Conduct the FLE

Stimulus Materials (click on video box)



Determine Stimulus Materials

- Developmentally appropriate or to serve a more diagnostic purpose:
 - Options
 - Receptive: Minimal pairs, words, phrases, sentences
 - Expressive: Spoken (repeat), picture or object pointing
 - Try whatever works
- Ideal: Sufficient length to reflect acoustic parameters of classroom
- Speech articulation: Can you understand the student's speech?
- Difficulty Level: Common Phrases vs Nonsense phrases
 - Nonsense phrases
 - mild/unilateral HL
 - Illustrates the impact on auditory comprehension when context is removed or student learning new content with new vocabulary
- Number of stimuli:
 - Consider desired conditions, child's attention capacity
 - Number of Lists: 8 basic conditions + 4 for RM HAT

Common & Nonsense Phrases

Common Children's Phrases

- 1. He fell down.
- 2. Clean this up.
- 3. It's not for you.
- 4. Can you see me?
- 5. Can I play now?
- 6. Look over there.
- 7. It's lunch time.
- 8. Can you help me?
- 9. Close your eyes.
- 10. Let me have it.

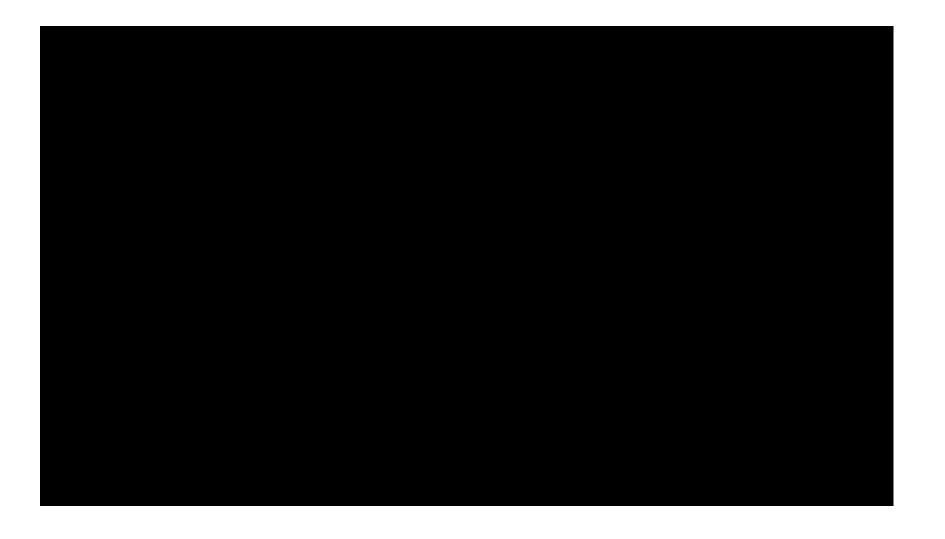
Nonsense Phrases

- 1. Down fell he boat.
- 2. Up this clean floor.
- 3. You table not.
- 4. Me you see can.
- 5. Now play I go.
- 6. There over look.
- 7. Lunch not time do.
- 8. Help you can me.
- 9. Eyes yours on blue
- 10. Have me let ball.

Stimulus Material Options

Sentence	Phrase	Words	Picture – Closed Set
 Hearing in Noise- 	• Common	•PBK	• WIPI
Test-C (HINT-C)	Children's	•NU-6	• NU-CHIPS
• SPIN (Speech in	Phrases		
Noise)	• Children's		
Pediatric Sentence	Nonsense		
Identification (PSI)	Phrases		
• WIPI sentences	(Available in		
BKB sentences	Spanish)		

FLE Protocol (click on video box)

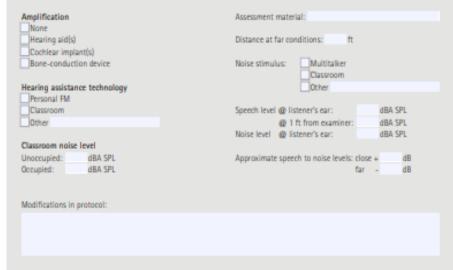


Fill out the autocalculating form created by Phonak:

www.adevantage.com/resources

Autometric results Hearing sensitivity Sound field Pure Tone Ave: Right Ear Aided Unaided Left Ear dB Quiet Noise dBHL @ S/N Word recognition % @ Right Ear **dBHL** Left Ear % @ dBHL

Functional Listening Evaluation conditions



Functional listening scorebox

	close/quiet	close/noise	far/quiet	far/noise
auditory-	1	3	2	S .
visual			12	9
	2	4	,	6
auditory			11	10

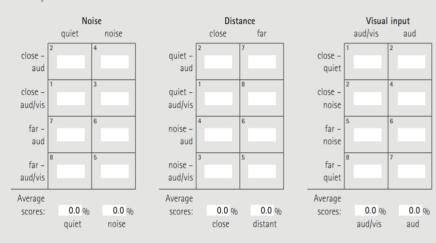
Updated 2012 by C.D. Johnson. Based on Functional Listening Evaluation by C.D. Johnson & P. Von Almen, 1993 8

Functional listening scorebox



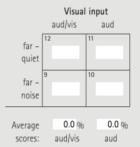
Updated 2013 by C.D. Johnson. Based on Functional Listening Evaluation by C.D. Johnson & P. Von Almen, 1993 8

Interpretation matrix



With hearing assistance technology:





Protocol Fields

- Audiometric Data
- FLE conditions
 - Amplification
 - Classroom Noise levels (occupied/unoccupied)
- Assessment Stimulus Material
- Distance at far condition
- Noise stimulus
- Speech presentation level
- Noise presentation level
- Speech to Noise levels for close and far
- Variations in the protocol

Variations in Protocol

Elevated ambient noise levels

Classroom size/distance from the teacher

Teacher's voice (soft/loud; accents)

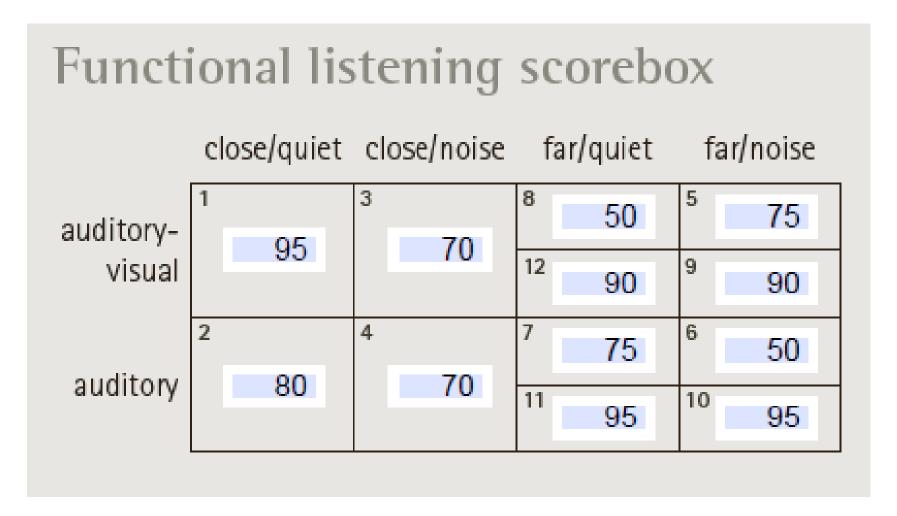
Teacher may deliver sentences

Age/Development Level

See Situational Observation of Listening for Children

Scorebox:

- 1-8 Standard conditions;
- 9-12 used for RM or other condition comparison



Appendix

Common children's phrases1

List 1	List 2	List 3	List 4
Condition:	Condition:	Condition:	Condition:
 He fell down. 	1. Can I go play?	 See you later. 	 Can I watch TV?
Clean this up.	2. Who is that?	Got to go now.	2. Where is it?
It's not for you.	3. Can we go?	Let me have it.	Let's go play.
4. Can you see me?	Have a nice day.	4. I'm tired.	I don't feel good.
5. Can I play now?	5. What's the matter?	That's awesome.	5. Can we draw?
Look over there.	6. What's going on?	6. Way to go.	6. I want to.
It's lunch time.	7. How are you?	7. That's tough.	7. Like my picture?
8. Can you help me?	8. Can you play?	8. Turn the light off.	8. Can I go too?
Close your eyes.	9. I don't want to.	Stop that now.	9. Can we play that?
10. Let me have it.	It's snowing outside.	10. Guess what?	10. I want that toy.
11. Clean up the mess.	11. That is neat.	11. Do you want to play?	11. Where are we goin
12. Hold this toy.	12. No way man.	12. Give it over.	12. Where's my shoe?
13. Bring it here.	13. Leave me alone.	13. Can we be friends?	13. Leave me alone.
14. Who is missing?	14. Do I have to?	14. She did it.	14. Can we stop?
15. Take my hand.	15. Where's the crayons?	15. Do you know what?	15. I want some.
16. Ring the bell.	16. Why can't I go?	16. You can't do that.	16. That one is mine.
17. Let me have it.	17. I want that.	17. Watch this.	17. I get the front.
18. You can't make me.	18. That's cool.	18. Tie my shoe.	18. It was my turn.
19. Can I have some?	19. When can I?	19. What's up?	19. Did you see mine?
20. Go right now.	20. No way.	20. I can't find it.	20. Let's stop there.
Phrase score	Phrase score	Phrase score	Phrase score
/ 20 = 0.0 %	/20= 0.0 %	/20= 0.0 %	/20 = 0.0 %
Word score	Word score	Word score	Word score
/ 69 = 0.0 %	/63 = 0.0 %	/ 63 = 0.0 %	/70 = 0.0 %

The phrase method is usually preferred because it yields performance more similar to classroom listening. Which ever ne is selected, use the same method for all conditions.

Phrase: exact repetition of each phrase is required; enter the number of correct phrases (the percent corre automatically calculated).

Word: circle incorrect word responses and subtract fro total number of words; enter number of correct words percent is automatically calculated).

Phrase vs Word Scoring 1 Phrase lists have been matched for length and for comprehension difficulty using the Flesch Brading Fave lorder.

difficulty using the Flesch Reading Ease Index.

List 5	List 6	List 7	List 8
Condition:	Condition:	Condition:	Condition:
1. Why can't I?	1. Know what Mom?	1. I broke my arm.	1. I bit the dust.
2. Do we have to?	2. I'm sick.	My lunch is gone.	2. He kept it.
3. Soccer is cool.	3. Where's my present?	3. Is it recess?	That song is sad.
4. Can I open it?	4. Give me that.	4. Do I have to?	4. He poked by eye.
5. Pick a team.	5. I didn't do it.	5. Stay off the hill.	5. I like candy.
6. Where's my shoe?	6. Put your shoes on.	6. Don't worry.	6. Get the ball.
7. How come?	7. That's so cool.	7. That's my sweater.	7. He kicked me.
8. I get to go.	8. Who is it?	8. My dog is gone.	8. Why can't I?
9. Stop it now.	9. He threw it.	9. I want an A.	9. No thank you.
10. School was fun.	10. What time is it?	10. Buy me that book.	10. Where's the ball?
11. We played outside.	11. He tripped me.	11. I hate spinach.	11. I don't know.
12. I know a song.	12. Let's play Nintendo.	12. I don't feel good.	12. You know what?
13. Can you do that?	13. It's time for lunch.	13. You can't make me.	13. My homework is lat
14. Come in my house.	14. Want to ride bikes?	14. That's my phone.	14. I hate that.
15. I don't know.	15. This is dumb.	15. Get that off.	15. I don't get it.
16. It's time for art.	16. It's my turn.	16. Change the channel.	16. Don't mess with me
17. Make my day.	17. I wrecked my bike.	17. What a ride.	17. Keep your hands of
18. I am hungry.	18. Watch out.	18. It's mine now.	18. That's my steak.
19. Go for it.	19. My tooth is loose.	19. Finders keepers.	19. Let's get pizza.
20. Why not?	20. I want money.	20. Get off my bed.	20. I skinned my knee.
Phrase score	Phrase score	Phrase score	Phrase score
/ 20 = 0.0 %	/20 = 0.0 0/0	/ 20 = 0.0 o ₀	/ 20 = 0.0 o/o
Word score	Word score	Word score	Word score
/65 = 0.0 o/o	/65 = 0.0 _{0/o}	/ 68 = 0.0 o ₀	/68 = 0.0 0/0

The phrase method is usually preferred because it yields performance more similar to classroom listening. Which ever one is selected, use the same method for all conditions.

Phrase: exact repetition of each phrase is required; enter the number of correct phrases (the percent correc automatically calculated).

Word: circle incorrect word responses and subtract fror total number of words; enter number of correct words (percent is automatically calculated).

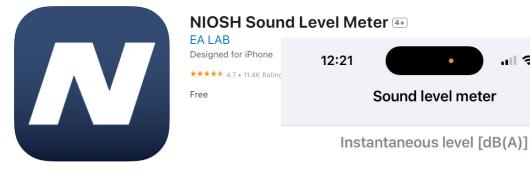
Selecting A Room (click on video box)



Environment for Testing

- 1. Select classroom
- 2. Observe and measure classroom conditions-record on form
 - Classroom Noise Levelsunoccupied/occupied
 - Far condition distance
 - Type of noise
- 3. Seating
 - Seating at a table as shown in the video provides room for the computer with the noise file and the SLM to both be placed 3 ft from student
- 4. Other
 - Check for lighting/glare
 - Minimize distractions





Microphone Orientation

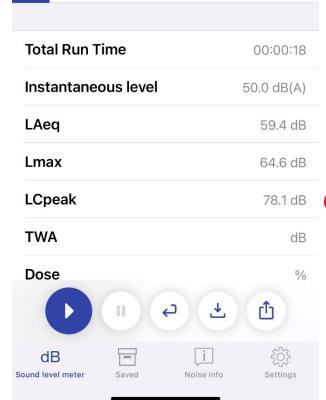
Do not hold SLM

LAeq: average sound level in dBA

Lmax: highest level recorded

50.0

?





Physical Set-Up (click on video box)





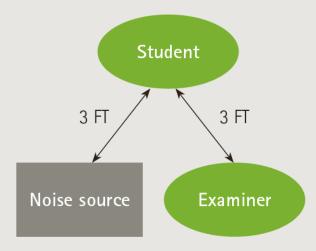
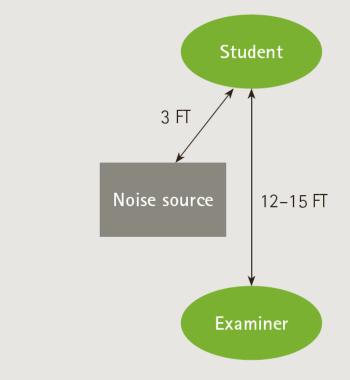


Diagram B - Far



Presentation Levels: Setting Up the Sound Level Meter (click on video box)



Noise Considerations

Note: Bluetooth speaker may be used to deliver noise source from computer, ipad, or phone to student

Type of noise

- Multi-talker babble most representative of classroom chatter
- Noise generated by computer

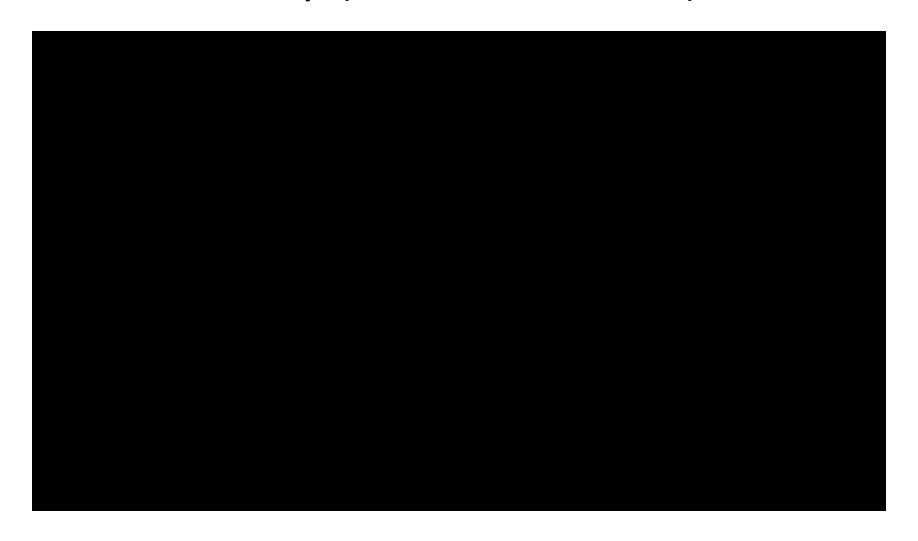
Level of presentation

- Target is same as normal conversation:
 50 dB HL/65 dB SPL on SLM
- SNRs: +5 to -5 dB (more than one level may be helpful)
 - Goal is to simulate classroom
 - Use student as their own control across situations to understand impact of noise, visual access, and distance

Visual Support

 Assess impact of auditory vs auditoryvisual input to consider speech reading benefit

Acoustic Hoop (click on video box)



Presentation Protocol

Eight conditions

Variables must stay the same except condition that is being evaluated

Student's typical hearing mode including amplification is used

When RM HAT validation is desired, repeat distance conditions (4)

Predetermined order to start easy and finish easy (quiet)

Use normal speaking rate and inflection

- Obtain the necessary materials
 Prepare the FLE set-up
 - 3. Check student's personal hearing instruments if used
 - 4. Conduct the FLE

Steps to Conduct the FLE

Before you start--

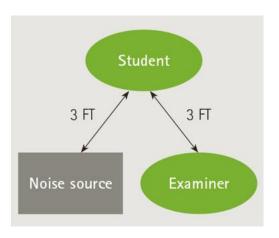
1. Check student's personal hearing devices.

Are they working as intended?

2. Describe activity to the student: "you will be hearing short phrases; please repeat what you hear. Sometimes there will be some noise in the background that will make it harder to understand the words please do your best to repeat them; it is ok to guess. "

Obtain the necessary materials
 Prepare the FLE set-up
 Check student's personal hearing instruments if used
 Conduct the FLE

Presentation Level: CLOSE



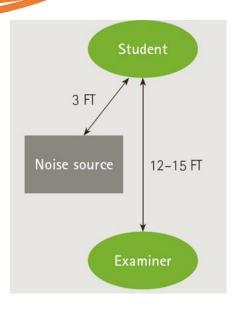
Recommended: +5dBA SNR

- Voice calibration with SLM:
 - Measure your voice at 3 ft. from examiner (the student's ear location) (ave. ~65 dBA)
 - Practice reading a passage to maintain steady voice level
 - Note: If you cannot read the SLM at 3 ft, bring SLM to 1 ft and verify your voice level (ave.~68 dBA)
- Noise source calibration with SLM:
 - Adjust volume to ave. 60 dBA at student's ear

Record on form:

- Speech level at listener's ear
- Speech level 1 ft. from examiner if used
- Noise level at listener's ear
- Approximate speech to noise levels for close conditions

Presentation Level: FAR



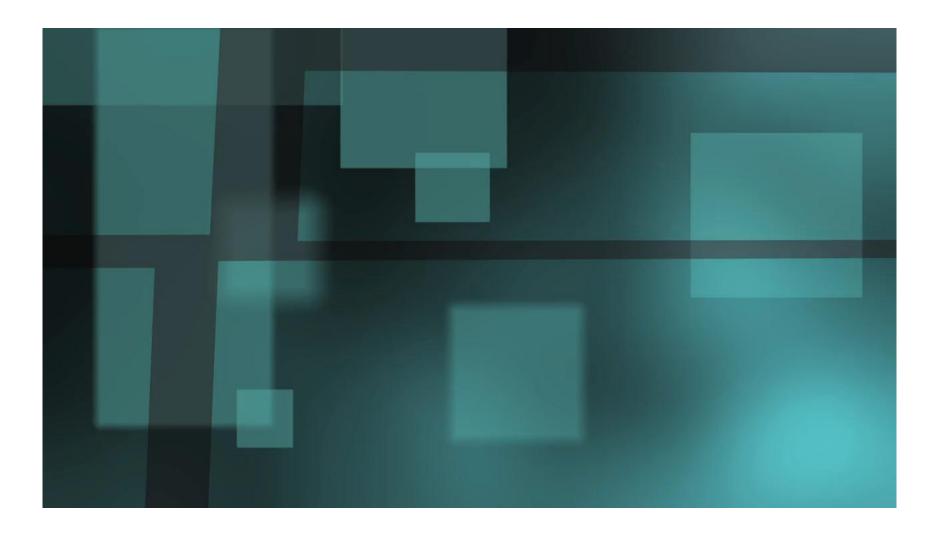
Recommended: -5dBA (far/noise)

- Noise source volume is unchanged; remains at ave. 60 dBA and stays at same location
- Examiner moves to distance location with SLM
 - Maintain ave 65dBA voice level as measured on the SLM (or at 1 ft. - ave.~68 dBA)

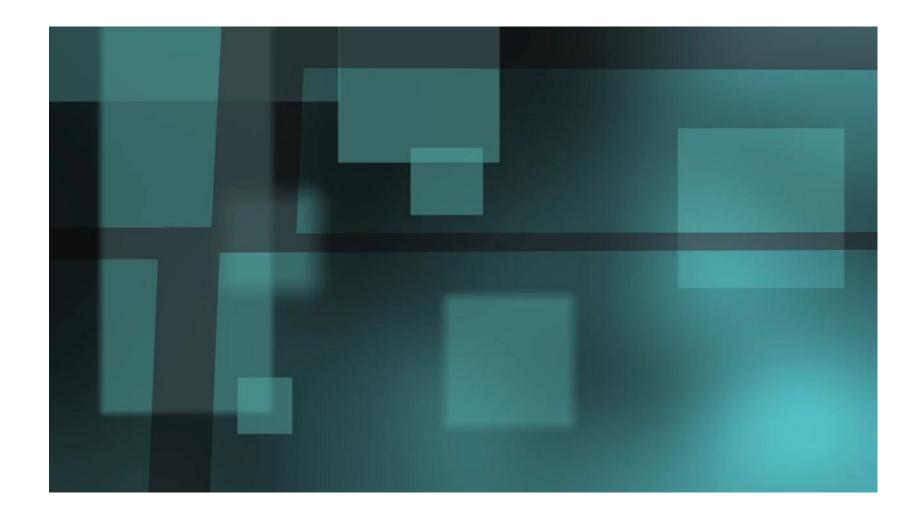
Record on form:

 Approximate speech to noise levels for far conditions.

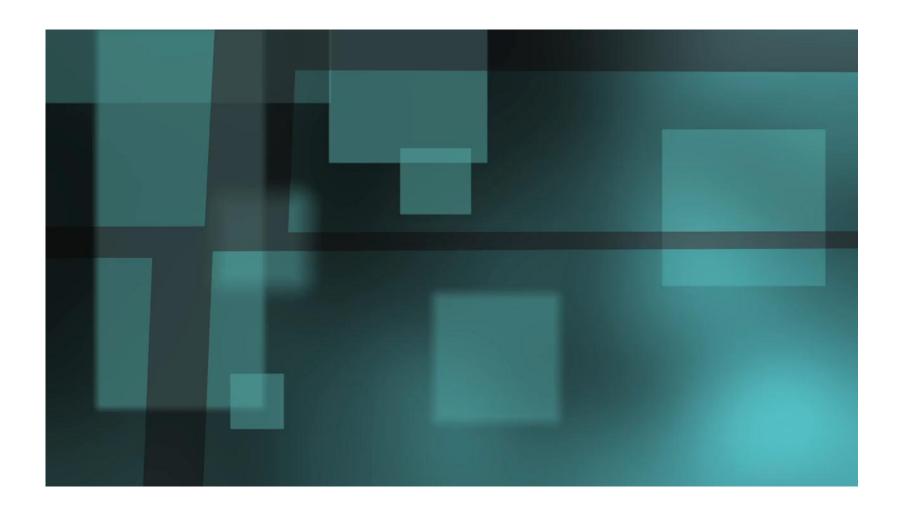
Condition 1: Close, Quiet, AV



Condition 2: Close, Quiet, Auditory Only



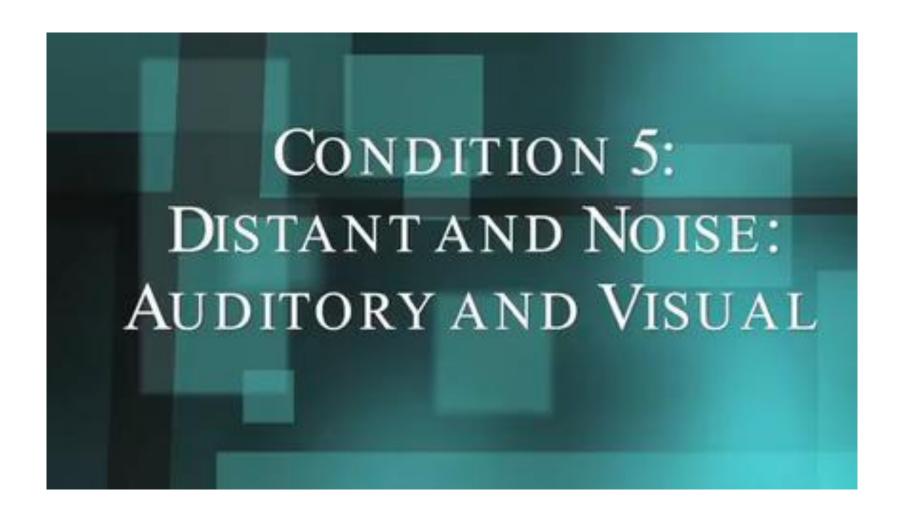
Condition 3: Close, Noise, AV



Condition 4: Close, Noise, Auditory Only



Condition 5: Distant, Noise, AV



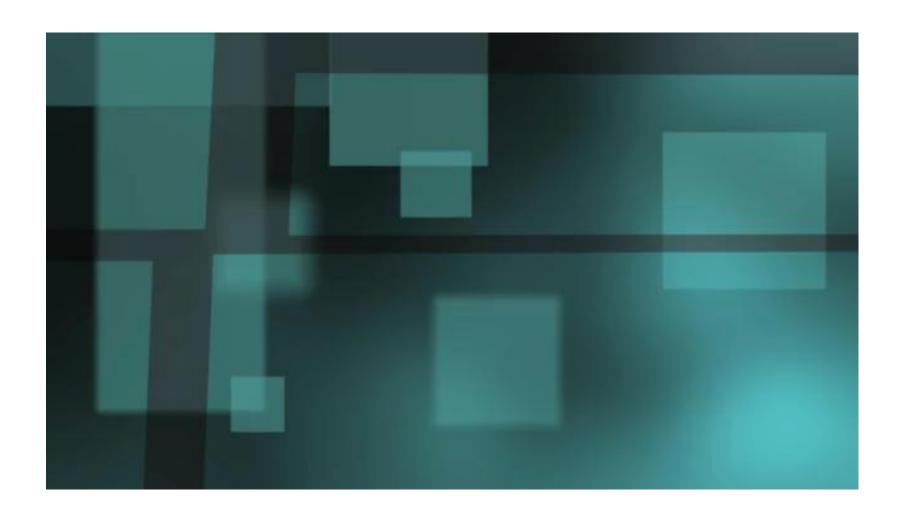
Condition 6: Distant, Noise, Auditory Only



Condition 7: Distant, Quiet, AV



Condition 8: Distant, Quiet, AV



Recorded FLE

Evaluation Materials



Recorded FLE Using Sentences (Johnson & Anderson, 2013)

- Hearing in Noise Test (HINT-C) 5 word sentences (15 lists of 10 sentences)
- Noise condition: pre-calibrated at +5 SNR for all conditions
- Auditory-Visual condition must be mouthed
- Presented at comfortable loudness level
- Eliminates need for noise file, hoop, and calibrating for presentation levels
- RM validation is live voice using the noise from the audio file
- Practice sentences: 3 quiet and 3 noise
- Available from https://successforkidswithhearingloss.com
- Download Directions https://www.youtube.com/watch?v=lf-DK6R_1Sc
- Download and Delivery explanation <u>https://www.youtube.com/watch?v=4tOxoMaKXG4</u>

Instructions

- Load test file to phone or computer
 - If using phone you may want a Bluetooth speaker to improve audio quality
- Adjust volume in close position to comfortable listening level for student – record volume setting and maintain throughout the test
 - Place computer or phone <u>next to examiner</u> for both close and distant conditions
- Close- Distance set-up: same as FLE
 - 4 sentence lists close, 4 distance (Recorded Lists 1-8)
 - Auditory –visual conditions: mouth in sync with audio
- RM assessment:
 - Distance/Noise, Examiner speaks the sentences: Lists 9: auditory only (use acoustic hoop), List 10: auditory-visual
- Do the practice sentences to orient the student to the task
- Score is based on words correct; mark off words that are incorrect; Record percent correct scores (into FLE Auto fillable scoresheet for each conditions.



THE RECORDED FUNCTIONAL LISTENING EVALUATION USING SENTENCES: SUMMARY & INTERPRETATION FORM

				Grade:
inections: The sentence worksheet is ordered to coincide with the precept and soons in the Scorebox. Lists 9-19 can be used to retest the far conditions in the Scorebox. Lists 9-19 can be used to retest the far conditions of a feet an 0-19 feet from the operator of the recorded test source. Adjust the precent of the test and the source. Adjust the precent retellibelow and do not change the volume for the remaining condition. The selection and do not change the volume for the remaining condition. The selection and do not change the volume for the remaining condition. The secondary will need to mouth the pendence use recording. Regnerable the practice sentences on page 3 of the sentence over from the sentence worksheet will sufficient and populate this will autocalculate and populate this will autocalculate and populate this will be sentence the sentence worksheet will sufficient the Sulf Far Word Recognition: Right Far 9 GHL Left Far 9 GHL Notes 9 GHL N	ons with FMI or of the conditions of the conditions of the conditions of the conduct the in type with the new worksheet.	Cicce- and I I I I I I I I I I I I I I I I I I I	Quiet- qu	Vigual input aud on aud
Test louthess @ listener's ear:68A SPL		tar-		22-
Modifications in protocol:		and h		noise % %
Construint Constroine torquiet Suditory VOLCE 2	tanhoise	Anarage 0.0 % 0.0 % noise interpret	ETATION AND RECOMMEN	DATION 0.0 % 0.0 %



Scoring

All variations must be documented!

According to procedures for materials used; score percent correct

- Common Children's Phrases –total phrase (preferred) or word
- Nonsense Phrases all words must be correct

Transfer percent correct scores to interpretation matrix

Auto-Calculating pdf

Review Interpretation Matrix for average effects of conditions

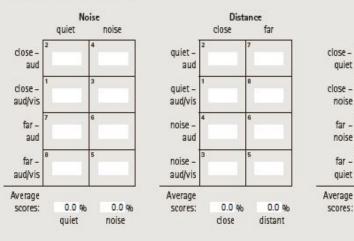
- Child's performance is compared across all conditions
 - Without RM HAT
 - With RM HAT

Audiometric results Hearing sensitivity Sound field Pure Tone Ave: Right Ear dBHL Aided Unaided Left Ear dBHL dBHL Quiet Noise % @ dBHL @ SNR Word recognition Right Ear dBHL dBHL Left Ear 90 00 Functional Listening Evaluation conditions Amplification Assessment material: None Distance at far conditions: Hearing aid(s) Cochlear implant(s) Bone-conduction device Noise stimulus: Multitalker Classroom Hearing assistance technology Other Personal FM Classroom Speech level @ listener's ear: dBA SPL Other dBA SPL @ 1 ft from examiner: dBA SPL Noise level @ listener's ear: Classroom noise level Unoccupied: dBA SPL Approximate speech-to-noise levels: close dB SPL dBA SPL far dB SPL Occupied:

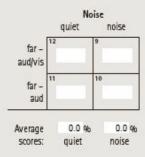
Functional listening scorebox

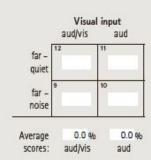


Interpretation matrix



With hearing assistance technology:





0.0 %

aud/vis

Visual input

aud

0.0 %

aud

aud/vis

Modifications in protocol:

	close/quiet	close/noise	far/quiet	far/noise
auditory-	1	3	8	5
visual			12	9
	2	4	7	6
auditory			11	10

Functional Listening Matrix (Scorebox)

	Close/Quiet	Close/Noise	Far/Quiet	Far/Noise
Auditory- Visual	95%	85%	90%	80%
Auditory	85%	65%	80%	35%

Interpretation Matrix: Effects of Noise

	Quiet	Noise
Close/Auditory	85%	65%
Close/Auditory-Visual	95%	85%
Far/Auditory	80%	35%
Far/Auditory-Visual	90%	80%
Average of Scores:	87.5%	66.25%

Interpretation Matrix: Effects of Distance

	Close	Far
Quiet/Auditory	85%	80%
Quiet/Auditory-Visual	95%	90%
Noise/Auditory	65%	35%
Noise/Auditory-Visual	85%	80%
Average of Scores:	82.5%	71.25%

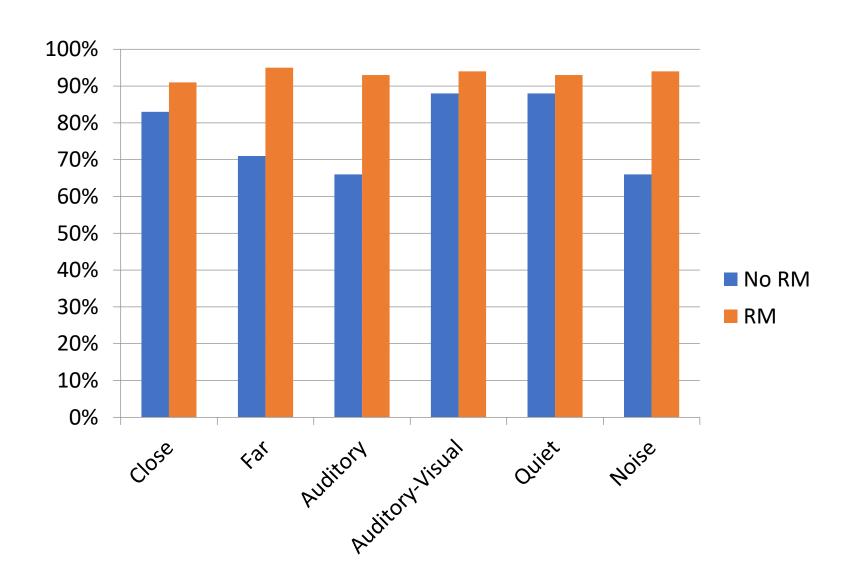
Interpretation Matrix: Effects of Visual Input

	Auditory-Visual	Auditory
Close/Quiet	95%	85%
Close/Noise	85%	65%
Far/Noise	80%	35%
Far/Quiet	90%	80%
Average of Scores:	87.5%	66.25%

Interpretation Matrix: Effects of Remote Microphone HAT (Note: scores are rounded)

	No RM	RM
Quiet	88%	93%
Noise	66%	94%
Close	83%	91%
Far	71%	95%
Auditory-Visual	88%	94%
Auditory	66%	93%

Interpretation Matrix: Effect of RM HAT



Functional Listening Evaluation / Amplification, Familiarity, Noise, Distance, Visual Input, FM NAME DATE Audiologist Functional Listening Matrix: CLOSE DISTANT 7. QUIET 8. NOISE 5. QUIET 6. NOISE 9. QUIET 10. NOISE 11. QUIET 12. NOISE 13. NOISE NO HA/FM HA HA NO HA/FM NO HA/FM HA HA+FM NO HA/FM HA 1. Auditory Only/ Unfamiliar Material 2. Auditory Only/ Familiar Material 3. Auditory-Visual/ Unfamiliar Material 4. Auditory-Visual/ Familiar Material Interpretation Matrix: AVG AVG Quiet Scores (5,7,9,11) Noise Scores (6,8,10,12) Degradation Percentage for Noise Close Scores (5.6,7.8) Distance Scores (9,10,11,12) Degradation Percentage for Distance Familiar Scores (2,4) Unfamiliar Scores (1.3) Degradation Percentage for Unfamiliar Material Auditory-Only Scores Auditory-Visual Scores (1,2)(3,4)Improvement Percentage for Visual Input Unamplified Scores Amplified Scores (5,6,9,10)(7,8,11,12)Improvement Percentage for Amplification No FM in Noise Scores FM in Noise Scores (13) (12)Improvement in Noise w/FM System Interpretation & Recommendations:

THE FUNCTIONAL LISTENING EVALUATION

Name: AW Date: April 18, 2008 Examiner: MS, Audiologist DOB: October 26, 2000 SCHOOL:

AUDIOMETRIC RESULTS

Hearing Sensitivity: Mild sensorineural loss .5 to 2 kHz right ear & .5 to 1.5 kHz left ear

Pure Tone Ave: Right Ear 30 dB HL Left Ear 20 dB HL

PTA used: √500, 1K, 2K □ 1K, 2K, 4K

Word Recognition: Right Ear 100% @ 50 dBHL Left Ear 92% @ 40 dBHL

Sound Field: Unaided Quiet 96 % @ 50 dBHL

Noise 88 % @ 50 dBHL @ 0 S/N

Sound Field: With FM Noise 100 % @ 50 dBHL @ 0 S/N

FUNCTIONAL LISTENING EVALUATION CONDITIONS

Amplification: None $\sqrt{}$ Hearing Aids \square FM $\sqrt{}$ Cochlear Implant

☐ Sound Field ☐ Other_____

Classroom Noise Level: Unoccupied <50 dBA SPL ; Occupied N/A dBA SPL

Assessment Material: Children's Nonsense Phrases

Distance (distant condition): 12 ft Noise Stimulus: Multitalker √

Speech level at listener's ear: 65 dBA SPL

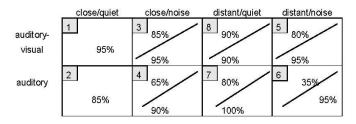
Speech level @ 1ft from examiner's mouth: 70 dBA SPL

Noise level @ listener's ear: 60 dBA SPL

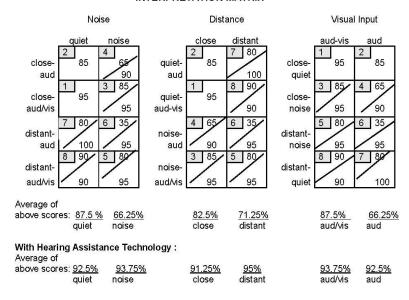
Approximate speech to noise levels: close <u>+5 dB</u> distant <u>-5 dB</u>

Modifications in protocol: Completed in standard room at North Delta Public Health
Unit as student's customary classroom unavailable. Classroom noise level not measured for this reason.

FUNCTIONAL LISTENING SCOREBOX



INTERPRETATION MATRIX



INTERPRETATION AND RECOMMENDATIONS

Presences of noise and distance from the speaker as well as lack of visual cues all have a significant detrimental effect on AW's speech reception. These are common elements in most classrooms. Use of an FM system significantly reduces these negative effects.

Recommendations:

- Provide AW with use of an FM system in the classroom
- When possible, reduce noise, decrease distance from AW, and provide visual cues in the classroom setting.
- Further discussion available on Audiological Report of April 27, 2008.

How often are assessments completed?

Some Indicators for repeating the FLE:

- Excessively noisy classroom
- Monitor use of accommodations
- Student struggling to hear in class or performance declining
- Teacher with accent, facial hair or other issues that may affect speech intelligibility

- Ideally: At least annually for every student with reduced hearing on an IEP or 504 Plan
 - Why?
 - Classrooms and teachers change
 - Listening skills change
 - Accommodations may need to be modified accordingly
- Annually for other students with known listening problems or when listening problems are suspected in other students

Interpretation and Recommendations

A score of 90%* is considered the level at which a student has sufficient auditory access to information in the classroom.

Interpretation:

- Generally, the condition of close/quiet/auditory-visual is the student's best score
- Describe effects of listening conditions
- Identify best listening ability

Recommendations:

- HAT is often recommended to close the auditory access gap for difficult conditions
- Other accommodations for access
 - Seating location
 - Visual access
 - Use of sign or cued language
 - See 504/IEP Checklist

^{*}Bodkin, Madell, & Rosenfield (1999).

Normative Data

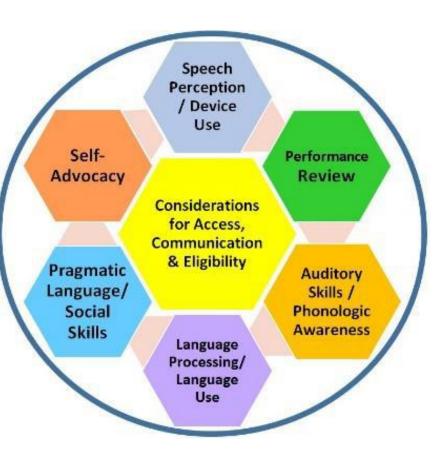
• In Quiet/Auditory Only/Close condition – normal hearing chi/dren perform at 96-99%, at +5 SNR 93-97% *

	9		Age 3-5 Male - Female	Age 6-8 Male - Female	Age 9+ Male - Female	
(Quiet (@ 50 dB	98-98%	98-98%	99-96%	
	Quiet (@ 35 dB	95-96%	97-98%	98-96%	
(50 dB (@ +5 SNR	93-94%	94-95%	97-93%	
	50 dB (@ 0 SNR	91-92%	91-93%	95-93%	
	35 dB (@ 0 SNR	90-92%	91-90%	91-90%	

- 126 typically hearing children ages 3-17
- Open set single words

^{*}Bodkin, Madell, & Rosenfield (1999).

Eligibility and IEP Goals



www.successforkidswithhearingloss.com

- FLE is an assessment to support eligibility
 - FLE provides data on auditory access limitations that occur as a result of an auditory disorder
 - Suggests accommodations and the potential need for specially designed instruction
- IEP Goals
 - Link FLE results to potential goal areas
 - EX: Self-Advocacy: Student will indicate to the teacher when she needs information repeated using a pre-determined signal at least 3 times daily during social studies class

Strategies for Convincing the IEP Team By Janet DesGeorges (Odyssey, 2013)

The strategies that we used to convince the IEP team that our daughter needed additional support (i.e., a sign language interpreter) to access classroom communication included:

- Objective testing/data, i.e., The Functional Listening Evaluation indicated need
- Subjective beliefs, i.e., I, as a parent, was able to articulate to the team in a practical manner with support from research and articles what my daughter needed
- Mastering details about who, what, when, why, and how interpreting services would be used in Sara's particular case, including the need to build Sara's sign language skills in order to access interpreting effectively
- Considering future needs, as the IDEA specifies that the purpose of special education services is "to prepare students for further education, employment, and independent living" (U.S. Department of Education, 2004).
- Agreeing to a time-limited pilot to see if indeed this support service would be beneficial

The FLE Report

- Student Background Information
 - Current educational placement
 - Description of hearing levels including functional interpretation
 - Use of hearing instruments
 - Interventions
 - Educational history
- Classroom observations (if conducted)
- Purpose of FLE and test description, test modifications, if made
- FLE results
- Recommendations
 - Accommodations, modifications for classroom environment, teaching strategies

FLE Limitations

- Measures access to spoken language, not comprehension of the language
- May not be representative of all classrooms depending on room acoustics, student familiarity with vocabulary and content, speech of teacher
- Examiner differences in presentation

When to use Live vs Recorded FLE

- Consider noise level in classroom if it seems excessive, do live version
- If student has significantly reduced audibility, the "comfortable" presentation level of Recorded FLE may be greater that the teacher's typical voice level – use live version
- If performance in noise is a primary concern do the live version to get lower SNR (-5 dB)
- Male vs Female voice preference
- If older student, Recorded FLE may be too easy use live version (nonsense phrases)
- If speech reading is a concern do live version
- Need flexibility do live version
- If examiner has an accent or other speech variation use recorded version
- If examiner is deaf use recorded version accommodated by a hearing person who can score the sentences
- If you are short on time use recorded version
- Personal preference?

Tools for assessing functional auditory abilities in young children

SITUATIONAL OBSERVATION OF LISTENING FOR CHILDREN

Part 1. Without Amplification or with	Personal	Hea	ring Ins	trum	ents	
Name: Completed by: Rater: parent audiologist teacher/EI p		Da	other-spe	ecify_		<u>a</u>
Type of instrument: no amplification hearing a	iia 🗆 cocnie	ear i	mpiant L	Done	conduct	ion
combination (describe) Instrument brand/model: Lengt	h of instrum	nent	use;			
DIRECTIONS: Using structured observation, please behavior or performance on typical days. To score, total, and then determine percent for each situatio scores in the Score Box in the column, Hearing Inst bottom of page 4.	subtract an in as directe trument Only	y Na dan y/W	A (not ap nd total p ithout An	plicabl erforn plifica	e) items nance. E ation, at	from ter the
1. Child responds to his/her name when spoken to:	SELDOM		SOMETI	MES	USUAL	LY
a. In a quiet room, within 3 feet	1	2	3	4	5	N
b. In a quiet room, at 10 feet	1	2	3	4	5	N
c. In a noisy room, within 3 feet	ī	2	3	4	5	Ň
d. In a noisy room, at 10 feet	ī	2	3	4	5	Ň
e. Without visual cues	1	2	3	4	5	N
f. From another room	1 -0	2	-3	4	5	N
g. Outside/in the community	1(2)	2	3	45	5	٨
2. Child attends to person speaking:	0-0	12	7	Γ.	_	
a. In a quiet room, within 3 feet	I di	2	7/3	4	5	N
b. In a quiet room, at 10 feet	(O) U/	2	3	4	5	N
c. In a noisy room, within 3 feet		2	3	4	5 5	Ņ
d. In a noisy room, at 10 feet e. Without visual cues	71	2	3	4	5	r
f. From another room	J 111	2/	3	4	5	Ň
g. Outside/in the community	i	2	2)3	4	5	N
3. Child distinguishes between words that sound alik	6	_(
(e.g., boy for toy, ball for doll, or sun for fun);	-	0	15			
a. In a quiet room, within 3 feet	1	2	3	4	5	N
b. In a quiet room, at 10 feet	1(3	2	3	4	5	N
c. In a noisy room, within 3 feet	1	2	3	4	5	N
d. In a noisy room, at 10 feet	1	2	3	4	5	N
e. Without visual cues	1	2	3	4	5	N
f. From another room	1	2	3	4	5	N
g. Outside/in the community	1	2	3	4	5	N

	SELDOM	SOMET	IMES	USUA	LLY
4. Child responds accurately to simple spoken direction	15				
and/or questions (e.g., Where is Daddy? Bring me					
a. In a quiet room, within 3 feet	1 2		4	5	NA
b. In a quiet room, at 10 feet	1 2	_	4	5	NA
c. In a noisy room, within 3 feet	1		4	5	NA
d. In a noisy room, at 10 feet	1 2		4	5	NA
e. Without visual cues	1 2		4	5	NA
f. From another room	1 2		4	5	NA
g. Outside/in the community	1 2	3	4	5	NA
5. Child comprehends and instruction & concepts (c.s.	mut the ba	//// Il undan #b	a +abla	۸.	
5. Child comprehends oral instruction & concepts (e.g.	, put the ba		е таріе 4	i): 5	NA
a. In a quiet room, within 3 feet	1 2		4	5	NA NA
b. In a quiet room, at 10 feet c. In a noisy room, within 3 feet	1 2		4	5	NA.
d. In a noisy room, at 10 feet	1 2	/	4	5	NA NA
e. Without visual cues	100		4	5	NA NA
f. From another room	1 2	_	4	5	NA NA
q. Outside/in the community	1 2	_	4	5	NA NA
g. Outside/in the community	1 2	3	-	3	INA
Information on personal device, if used;					
Personal device is easy to operate:	1 2	3	4	5	NA
Personal device has remained in good working order:	1 2		4	5	NA
Personal device is comfortable for child to use:	1 2	3	4	5	NA
Child tries to turn personal device off:	1 2	3	4	5	NA
Feedback (whistling noise) is present with ersonal device:	1 2	3	4	5	NA
Indicate types of activities the personal device is used fo	r?				
snacks play story-time/reading _	playground	wal	ks		
listening/language/speech therapyshoppin	gcar	stroll	er		
other (describe)					
For which of the above activities do you think the persona	l device was	most benef	ficial?		
•			E/	12	-
What do you think is the greatest benefit(s) of the perso	nal device?				STA
What do you think is the greatest challenge(s) with the pe	ersonal device	. ((63)	T.	3
22 /22 min is may growner and angles of with the pe		1	200	2/	
How has your communication with your child changed when	usina person	nal device?	7/2	TH	Y
,	3,1		(000	1 320
		7	1 10		1
		3	- 18	155	
					1

SITUATIONAL OBSERVATION OF LISTENING FOR CHILDREN

Part 2. Amplification: Personal Hearing Instrument or Remote Microphone (RM) System

Name;	Date:
Type of instrument (personal or RM System):	
Instrument brand/model:	Length of use;

DIRECTIONS; The rater should be the same as in the baseline condition and ratings determined under comparable conditions. Check the box for the conditions you are comparing: "No Amplification" to "Personal Hearing Instrument" or "Personal Hearing Instrument" to "RM system". To score, subtract any NA (not applicable) items from the total, and then determine the percentage for each situation and total performance. Enter scores in the appropriate Score Box columns. Subtract the percentages in the first column from the second column to obtain the perce of change.

		SELDO	м	SOMETI	MES	USUAL	LY
1.	Child responds to his/her name when spoken to:						
	a. In a quiet room, within 3 feet	1	2	3	4	5	NA
	b. In a quiet room, at 10 feet	1	2	3	4	5	NA
	c. In a noisy room, within 3 feet	1	2	3	4	5	NA
	d. In a noisy room, at 10 feet	1	2	3	4	5	NA
	e. Without visual cues	1	2	3	4	5	NA
	f. From another room	1 ~	్ల 2	~_3	4	5	NA
	g. Outside/in the community	1 8	72	3	47	5	NA
	,	(3)	Y		15		
2	Child attends to person speaking;	20	116	7			
	a. In a quiet room, within 3 feet		2	3	4	5	NA
	b. In a quiet room, at 10 feet		1/2		4	5	NA
	c. In a noisy room, within 3 feet	UV	/ 2	3	4	5	NA
	d. In a noisy room, at 10 feet	21/	/2	3	4	5	NA
	e. Without visual cues	11	72	3	4	5	NA
	f From another room	7 1/	2	131	4	5	NA
	g. Outside/in the community	101	2	1/3	4	5	NA
	g. consider in the comment,	(0 6	(-/-/	7 -		
3.	Child distinguishes between words that sound alike	10,	= _ `				
	(e.g., boy for toy, ball for doll, or sun for fun);			11			
	a. In a quiet room, within 3 feet	1 50	2	3 3	4	5	NA
	b. In a quiet room, at 10 feet	1((2	3 3	4	5	NA
	c. In a noisy room, within 3 feet	1	- 2	3	4	5	NA
	d. In a noisy room, at 10 feet	1	2	3	4	5	NA
	e. Without visual cues	1	2	3	4	5	NA
	f. From another room	1	2	3	4	5	NA
	a. Outside/in the community	1	2	3	4	5	NA

				SELDO)M	SOME	11WF2	050	ALLY
4.	Child responds accu	rately to simple spoken d	directions o	and/or	quest	ions:			
	(e.g., Where is Do	addy? Bring me your bott	tle):						
	a. In a quiet room,	within 3 feet		100	2	3	4	5	NA
	b. In a quiet room,	at 10 feet	190	13	2	3	4	5	NA
	c. In a noisy room,	within 3 feet	1(5)	1	2	3	4	5	NA
	d. In a noisy room,	at 10 feet		1 0	2	3	4	5	NA
	e. Without visual o		Veta 1	1	2	3	4	5	NA
	f. From another ra		1/3	1	2	3	4	5	NA
	g. Outside/in the		I V	12/	2	3	4	5	NA
	g. oursider in the	F	37 6	ZW/	17//	7			
5.	Child comprehends	oral instruction & concept	ts (e.g., pi	ut the l	ball u	nder the	table)		
	a. In a quiet room, i	vithin 3 feet	1/2	1	2	3	4	5	NA
	b. In a quiet room,	at 10 feet		1	2	3	4	5	NA
	c. In a noisy room,	vithin 3 feet		1	2	3	4	5	NA
	d. In a noisy room,	at 10 feet		1	2	3	4	5	NA
	e. Without visual cu	es	/E		2	3	4	5	NA
	f. From another roo	m		1	2	3	4	5	NA
	q. Outside/in the co			1	2	3	4	5	NA
	,	······································			_				
Info	ormation on RM sys	tem use:							
RM.	system is easy to op	erate:		1	2	3	4	5	NA
RM.	system has remained	l in good working order:		1	2	3	4	5	NA
RM.	system is comfortab	le for child to use:		1	2	3	4	5	NA
Chil	d tries to turn RM s	ystem off:		1	2	3	4	5	NA
Fee	dback (whistling nois	e) is present with RM syst	tem:	1	2	3	4	5	NA
Indi	icate types of activit	ties the RM system is used	for?						
	snackspla			aygrou	nd	walks	5		
		ge/speech therapy:	-	car		strolle			
			mopping		_				
_	other (describe)	1	D				-	V	_
For	which of the above of	activities do you think the	RM system	was m	ost be	eneficial	12		- 1
147			DII .				2.00	387	8 8
Who	at do you think is the	greatest benefit(s) of th	ie KM syste	sm?		16	0	3	-lel
W/h	at da van think is the	greatest challenge(s) wit	h the DM c	wtom?					TO
WILL	ar do you mink is me	s greatest challenge(s) wit	n ine km s	ystem		(0)	5	10	
How	has your communica	tion with your child chang	ed when us	ina RM	svste	m?	120	4 1	MIN
	,	,,			-/		1 2		THE.
		Score (Box Analy	/sis		U 1			
							929		1
	C to C	☐ Hearing Instrument (rument	Perce	ent Cha	age
	Condition Score:	□ No Amplification		□ RM	1	_	l 1	9	
	Quiet (a,b):	/ (50) =%	_	_/(50)	=	%		%	
	Noise (c,d,g):	/(75) = \%		_/(75)	=	%	[%	
		/(25) = 1%		/(25)	\equiv	- 1 ₉ /		%	
	Auditory only (e):		_	_ ` `	\equiv	J/6	'		
	Distance (b,d,f):	/(75) =%		_/(75)	=	%	اا	%	
	Total Score (1-5)	/(175) = %		/(175)	=	%	+	%	\dashv

Early Listening Function LING (ELFING)



Ling Sound Listening Bubble Checklist For Young Children

	2010(0)				
	ly to exit early intervention, t				
Listening Function	(ELF) checklist. The ELF is a d	iscovery tool tha	t provides 12 listening act	wities that are presented at	
				esponding at a distance of only	ı
6 inches. In practic	al terms, the task is to identil	ly the size of the	child's listening bubble. T	he ELF procedure has been	
				ked to point to or repeat the	
				allowing the child to view the	
	he child detecting the breath				
				will also be able to detect it at	
				t necessary to see if he can do	
				I will need to be quite close to	
the speaker to dete	ect/identify /voiceless th/ and	d /s/ sounds. In o	ther words, these sounds	become undetectable for	

Listening to Ling Sounds at Different Distances

many children from just a few feet away. This is a powerful illustration of the necessity of close proximity, or the listening bubble concept. Refer to the ELF for more information on procedure.

Based on the child's responses to sound, place Y (Yes), M (Maybe/Inconsistent), or N (No) in the boxes.

QUIET	NOISE Source_		AMPLIFICATION_			
Ling Sound	15 FEET Next Room	10 FEET	6 FEET	3 FEET	1 F00T	
00						
AW						
EE						
M						
SH						
S						

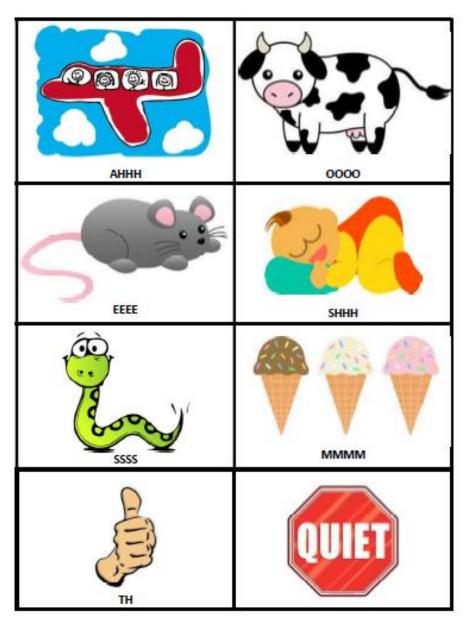
Comment:

QUIET :	NOISE Source_		AMPLIFICATION			
Ling Sound	15 FEET Next Room	10 FEET	6 FEET	3 FEET	1 F00T	
00						
AW						
EE						
М						
SH						
5						

Comment

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Early Listening Function checklist can be downloaded from http://successforkidawithhearingloss.com/tests. Permission to reproduce.



Tips

- You must use the same procedures across all conditions so that you can evaluate the condition effect
- Practice ahead of time
- Use the SLM app to monitor your voice level- it will be the same for all conditions
- Ask the classroom teacher to score the student's responses on the worksheet during the FLE
- Get familiar with the process; it can be adapted to address other areas of concern
- Use the data to advocate for accessibility for students with auditory disorders



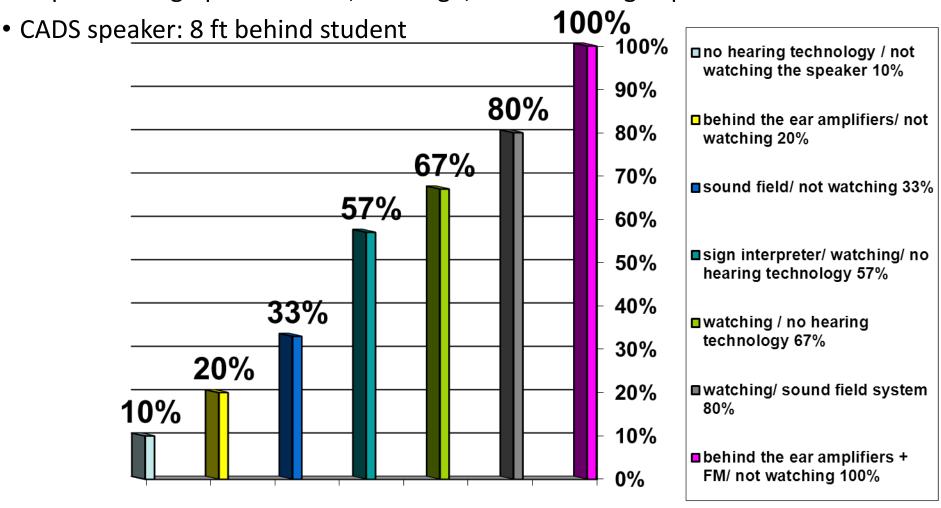
•	: Mandy Longo at The Resource Materials and Technology Center for the Deaf/Hard of Hearing (RMTC-DHH), St Augustine, FL (FLE-2016)

Case Study 1: HA vs no HA
Case Study 2: HAT comparison (CADS- Personal FM)

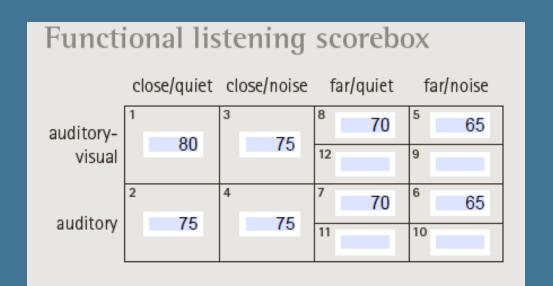


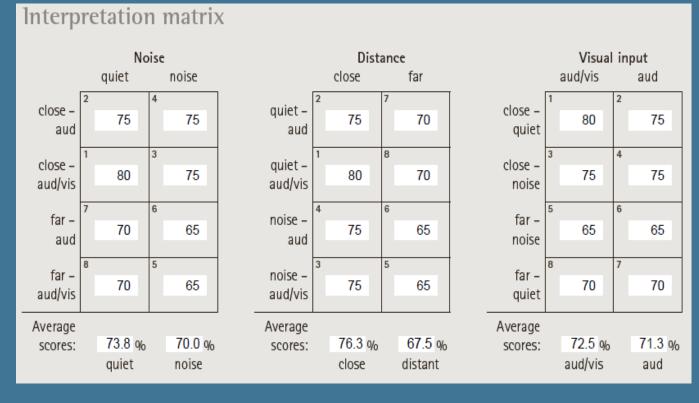
Using Modified FLE to Evaluate Benefit from Interpreter

- All conditions: 12 foot distance with noise, repeated single words to see effect of unpredictable context;
- sign language interpreter: 6 ft in front of student, student could request 2nd sign presentation, if no sign, word was fingerspelled



3rd grade student with autism and normal hearing acuity. Children's Common Phrases used due to deficits in language and literacy including auditory processing.





3rd grade student with autism and normal hearing acuity. Children's Common Phrases used due to deficits in language and literacy including auditory processing.

Distance, noise and lack of visuals have an impact on CT's speech perception. Recommendations:

- CT should be seated closer to the teacher. The class is in a U shape already, so sitting closer to the teacher will give him greater access to the content.
- The teacher should use a RM system when lecturing. This will help CT to be able to identify the teachers voice when there is other classroom noise.
- Teacher should incorporate visuals in the lecture that can help CT make connections between the speech and the content.

FLE Case Study: Single —Sided Deafness Speech/Language Evaluation

• CELF-5

- Significant difference in understanding language and ability to express himself
- Significant difference between semantic knowledge and ability to apply memory to language tasks
- Summary: Difficulty with the metalinguistic skills needed to interpret and utilize complex language; as a result, we would expect difficulties with both processing and production of language to have a significant negative impact on the performance of the complex academic tasks required of adolescents.

Language Indexes	Standard Score*	Percentile Rank
Core	107	68
Language		
Receptive	105*	63
Language		
Expressive	89*	23
Language		
Language	116**	86
Content		
Language	83**	13
Memory		

Mean = 100, with standard deviation of +/-15

^{*}Statistically significant difference

^{**} Statistically significant difference

Test Effort

- Struggled to create sentences: frustration, banging his chin on the table and actually crying.
- Productions characterized by false starts, stopping, restarting, and very long pauses while he reformulated his sentences mentally; frequently made multiple self-corrections including after an item had passed.
- "In a classroom, if is rethinking things, the rest of the class is moving ahead, and he is likely to be frequently "lost" throughout his school day.

 Overall, scores may appear to be better than his actual functioning, as a great deal of effort and self-correction was noted, and in a rapidly-paced classroom, he does not have the luxury of time that the testing environment affords."

FLE Case Study Single-Sided Deafness Functional Listening Evaluation

Averaged Results: Common Phrases vs Nonsense Phrases

- Common Phrases (able to use linguistic knowledge to fill in the blanks)
 - Effect of Noise quiet 99%, noise 96%
 - Effect of Distance close 99%, distant 96%
 - Effect of Visual Input auditory + visual 98%, auditory only 98%
- Nonsense Phrases (ability to understand words without topic knowledge)
 - Effect of Noise quiet 74%, noise 51%
 - Effect of Distance close 66%, distant 59%
 - Effect of Visual Input auditory + visual 66%, auditory only 59%

SPEECH UNDERSTANDING NONSENSE PHRASES	Close/quiet	Close/noise Effect of noise	Distant/quiet Effect of distance	Distant/noise Effect of noise + distance
Auditory and visual	70%	65%	75%	50%
Auditory only Effect of loss of visual input	70%	60%	80%	30%

FLE Case Study Single-Sided Deafness Classroom Participation Questionnaire

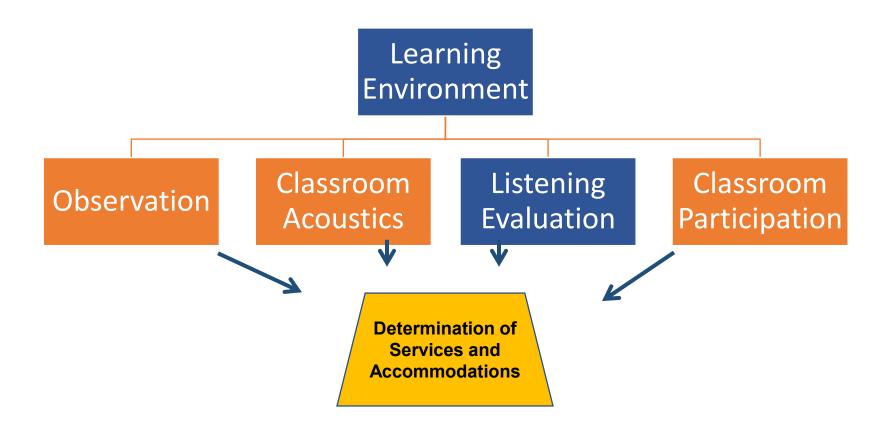
- Stinson, Long, Reed, Kreimeyer, Sabers, Antia (2006).
- Desirable
 Ratings:
 3.5-4.0,
 Negative
 Affect 1.0 2.0
- Available from www.adeva ntage.com

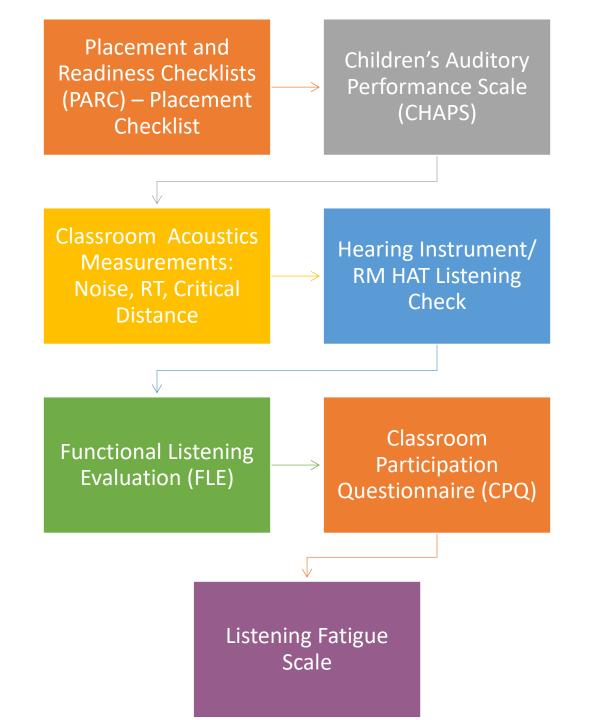
1 - Almost Ne	ever	Desirable ratings are in the 3.5-4 range. 2 - Seldom 3 – Often	4 - Al	most /	Always	5	
	Quest			Rat	ings		
	Numb	per	1	2	3	4	
	1	I understand my teacher.					
	9	I understand my teacher when she gives me homework assignments.					
Understanding	10	I understand my teacher when she answers other students' questions.					
Teacher	11	I understand my teacher when she tells me what to study for a test.					
(4)		Mean of the Subtotal	11	/ 4 =	2.75		
	2	I understand the other students in class.					
	3	I join in class discussions.					3
Understanding	12	I understand other students during group discussions.					
Student	13	I understand other students when they answer my teacher's questions.					
(4)		Mean of the Subtotal	14	/ 4=_	2.5 _		
	4	I feel good about how I communicate in class.					3
Positive	8	I feel relaxed when I talk to my teacher.					
Affect	14	117 0 1					7
(4)	15	I feel good in group discussions in class.					
		Mean of the Subtotal	_5	/ 4 =	1.25		_
		Desirable ratings are in the 1-2 range.					3
	5	I feel frustrated because it is difficult for me to communicate with other					5
		students.					
Negative Affect		I get upset because other students cannot understand me.					
(4)	7	I get upset because my teacher cannot understand me.					
	16	I feel unhappy in group discussions in class.					
		Mean of the Subtotal	10	/ 4 =	2.5		1

SSD Summary -

"An unawareness of the effects that SSD can have on a child's academic performance can lead to a reactive or "failure-based" approach towards intervention. By recognizing the significant effect of hearing loss, support and intervention efforts can be proactive and can lead to successful academic and social functioning". (SLP)

Classroom Listening Assessment Overview





Summary: Critical Concepts for Children who use Audition for Listening and Learning

- Audiogram Interpretation
 - Audibility only opens the door to listening and learning
 - Audibility vs intelligibility
 - Degree of HL does not equal auditory access
 - Make the audiogram meaningful
- Hearing instrument fitting is an essential first step to audibility; it must be done correctly (OCCHL)
- Consider the role of classroom acoustics
- Evaluate functional listening in the classroom
- Advocate for the benefit of RM-HAT
 - Auditory access in the classroom
 - +15-20 SNR
 - Proper implementation & support to teachers
- Provide students opportunities to learn about their hearing and support development of self-determination and self-advocacy skills

Other FLE Training Resources

 Ohio Outreach Center for Deafness and Blindness https://deafandblindoutreach.org/m/1465



The Functional Listening Evaluation originally published by Cheryl DeConde Johnson, Ed.D., can provide critical information to support a learner's access across educational environments, but training on how to administer this assessment is variable in higher education programs. This module was created to walk you through the purpose of a Functional Listening Evaluation, the steps in conducting one, the materials you will need in order to administer, and how to utilize the data to determine appropriate accommodations. A demonstration of the assessment along with the use of case studies will deepen your learning and provide you with the information necessary to administer the assessment with your own learners.