

Components of a Deaf/ Hard of Hearing Program


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Akron Public Schools

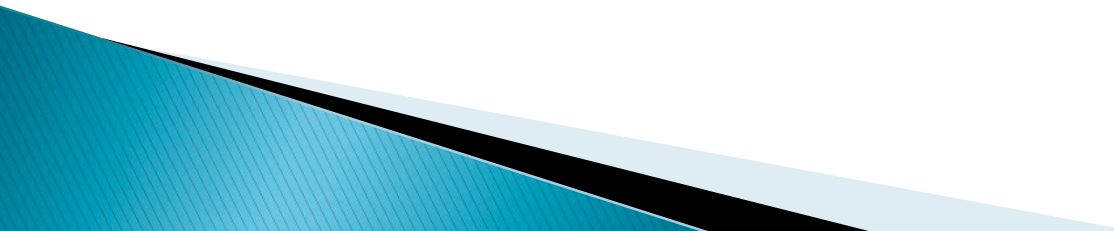
▶ Our Team:

- Parents
- Deaf/Hard of Hearing Intervention Specialists
- Speech/Language Pathologists
- Audiologist
- Audiologist Assistant/Family Support Specialist
- Supervisor

▶ Demographics

- Big 8 Urban District—50 Schools
 - Poverty 78%
 - 8 Deaf/HOH Educational Classrooms
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Our Population

- ▶ Deaf/Hard of Hearing students ages preschool through grade 12
 - ▶ Various degrees of hearing loss ranging from mild–profound
 - ▶ Many with access to technology to facilitate listening and spoken language
 - ▶ Following the national trend of 30–40% demonstrating additional disabilities
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Additional Disabilities In Children With SNHL



No Additional Disabilities

61%

Intellectual Disability 8.3%

Learning Disability

10.7%

ADHD 6.6%

Low Vision

3.8%

Blindness

1.7%

Autism

1.7%

Emotional

1.8%

Gallaudet

Communication Continuum

Fully
Auditory
Communicator

Mostly
Auditory
Communicator

Mostly
Visual
Communicator

Fully
Visual
Communicator

A

A_v


AV



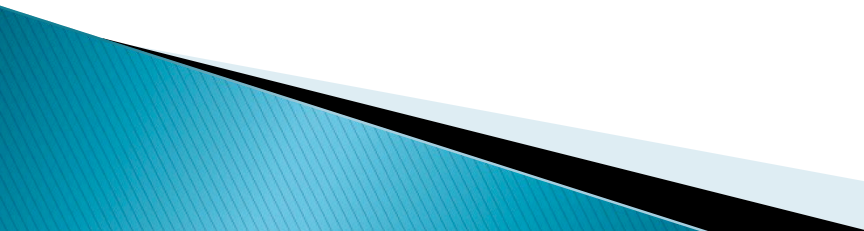
V_A

V

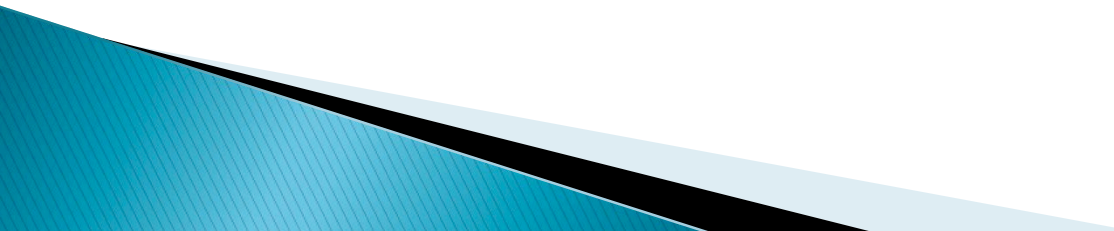
How We Got Here....

- ▶ In the past decade, the education of deaf and hard of hearing children has been dramatically impacted by new technology and legislation (Universal Newborn Hearing Screening)
 - ▶ Babies are now being identified within the first days of life
 - ▶ Hearing technologies (hearing aids and cochlear implants) are providing better quality sound, allowing access to nearly all the sounds of speech
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How We Got Here...

- ▶ National statistics → students are graduating with 4th grade reading level
 - ▶ Addressing national issues related to:
 - Minimal differentiated instruction (academic and auditory learning)
 - Lack of academic success and employment opportunities post graduation
 - Empowering parents in the educational process
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What We Needed....

- ▶ Guidelines for differentiating instruction for children with varying listening profiles, communication access, and ability levels
 - ▶ APS contacted Boys Town National Research Hospital to facilitate our change process
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Global Areas of Systemic Change

Program Components and Goals:

Component 1: Auditory Skills Facilitation

Goal: Implementation of strategies and activities for facilitation of listening in the educational environment.

Component 2: Developmentally Appropriate Practices (DAP)

Goal: Implementation of Developmentally Appropriate Practices in early childhood program.

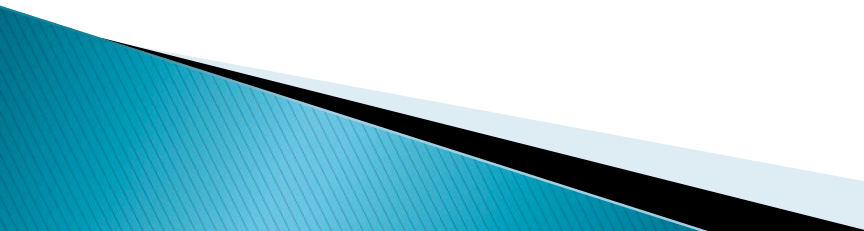
Component 3: Assessment

Goal: Establishment of preschool and school-age speech, language, auditory and academic assessment protocols.

Component 4: Team Formation and Function:

Goal: Establishment of Deaf/Hard of Hearing team and engagement in team development training.

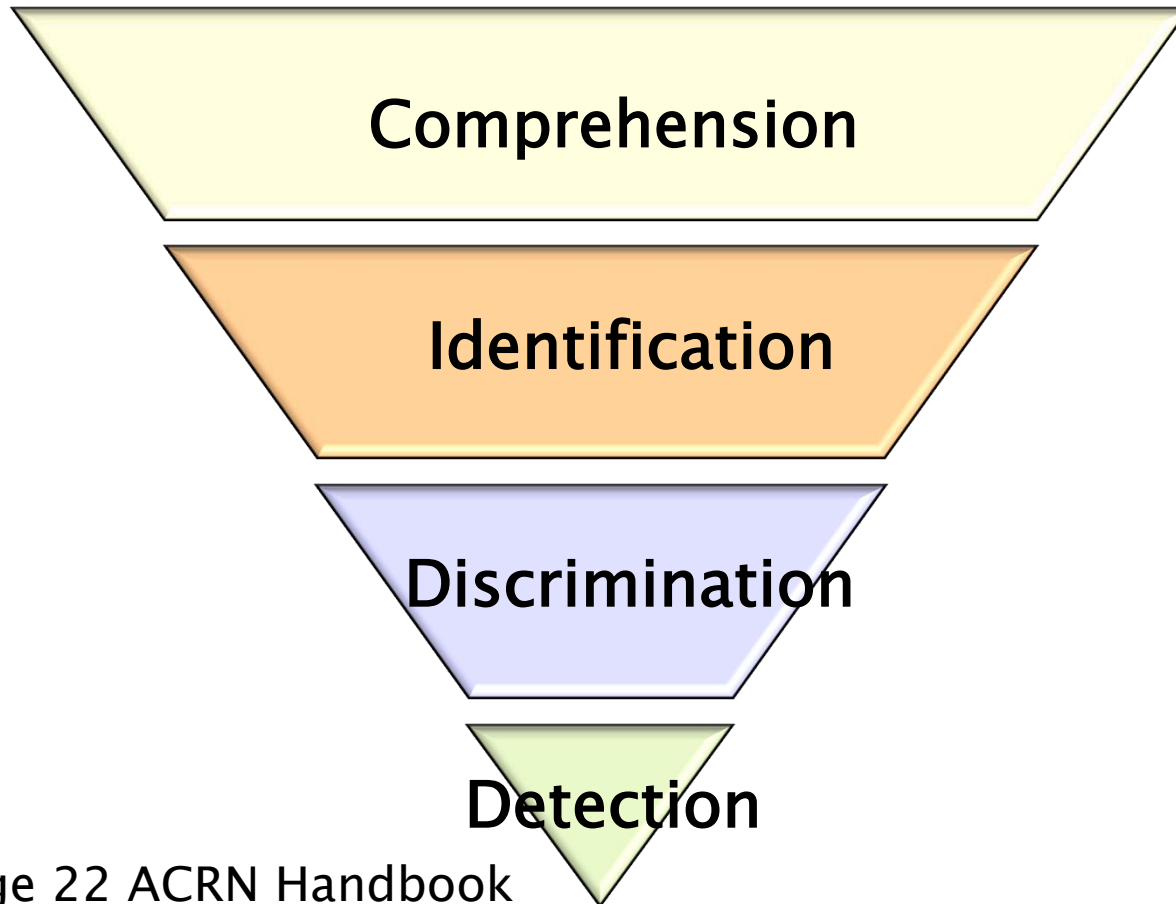
Areas of Program Change

- ▶ Hiring practices modified
 - ▶ Establishing and maintaining family partnership
 - ▶ Formation of Deaf/HOH Advisory
 - ▶ Careful evaluation of LRE
 - ▶ Ongoing professional development
 - ▶ Communication Profiles
 - ▶ Speech/Language Assessments
 - ▶ Audiological Assessments
 - ▶ Conceptually Accurate Signed English (CASE)
- 

Advanced Technology



Audiological Assessment



See Page 22 ACRN Handbook
Erber (1982)

COMPREHENSION

Sequence/Recall:

TAC: Subtest 10: _____
TAC: Subtest 9: _____
TAC: Subtest 8: _____
TAC: Subtest 7: _____

Paragraph Level:

Listening Comprehension Test: _____
CELF – 4: Paragraphs w/o pictures: _____
CASL: Paragraphs w/pic support: _____

Questions:

Other: _____

AUDITORY MEMORY

ACLCL: _____
TAC: Subtest 6: _____
TAC: Subtest 5: _____

IDENTIFICATION

Open Set Sentence Identification:

HINT/HINT-C: _____
BKB: _____
Common Phrases: _____

Other: _____

Open Set Word Identification:

CNC: _____
PBK-50: _____
LNT – Easy/Hard: _____
MLNT – Easy/Hard: _____

Closed Set Sentence Identification:

Mr. Potato Head Task: _____

Closed Set Pattern Perception:

ESP – LV: _____
TAC: Subtest 3: _____
TAC: Subtest 2: _____

Closed Set Word Identification:

WIPI: _____
NU-Chips: _____
TAC: Subtest 4: _____
ESP - LV/S: _____

DISCRIMINATION

TAC: Subtest 1
Minimal Pairs (i.e./s/v. "sh")
Same/Different Task

DETECTION

Ling 6: _____
Audiogram: _____

Modifications in the Role of the Speech Language Pathologist

- ▶ Previous responsibilities → School-based SLP
- ▶ Current responsibilities of D/HOH SLP
 - Current workload
 - Specialized D/HOH SLP's → PreK–5th; 6th–12th
 - intensive training targeting auditory learning methods for working with children using current hearing technology, FM systems and cochlear implants

Communication Profile


Purpose:

- ▶ To compile background and assessment data on each student in a format that can be used for monitoring progress, identifying needs and developing program goals and placements.



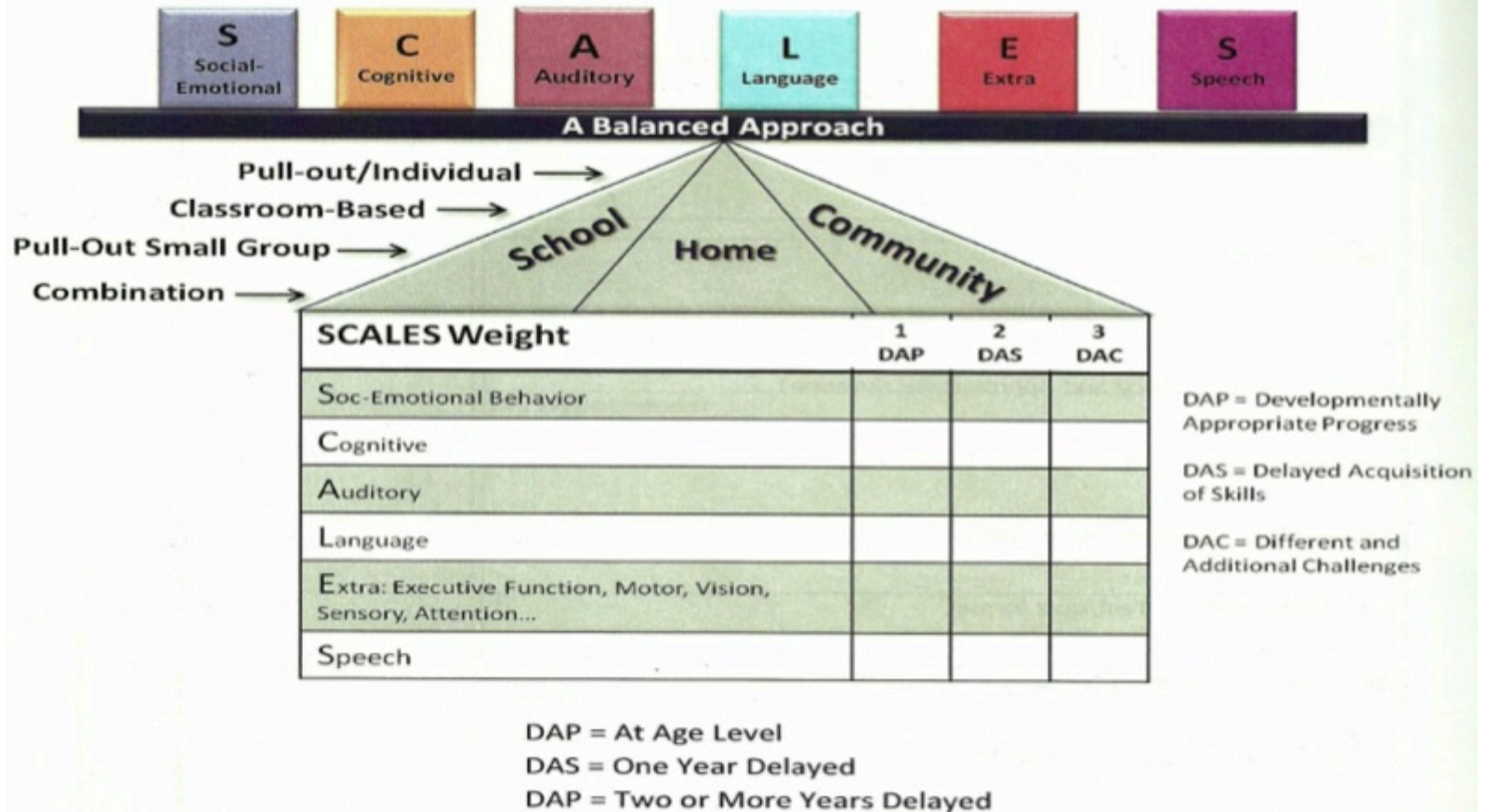


Communication Profile

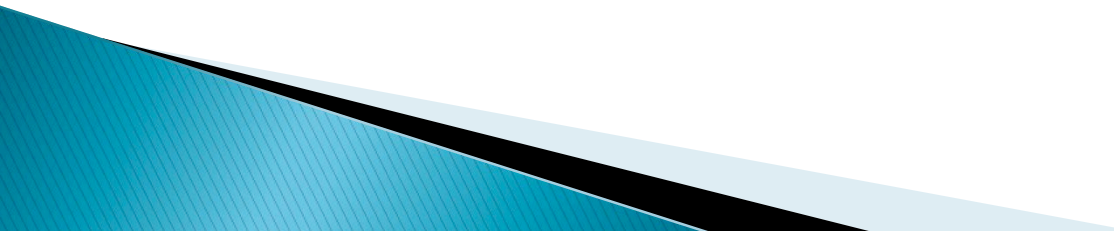
- I. Background Information
 - II. Hearing Information
 - III. Educational Services
 - IV. Communication Expectation and Performance
 - V. Student Assessments
 - VI. Student Assessment Profile Summary
 - VII. Language Sample
 - VIII. Speech Production: Phonetic Inventory & Phonologic Analysis
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A New Approach to Planning

The Scales Model

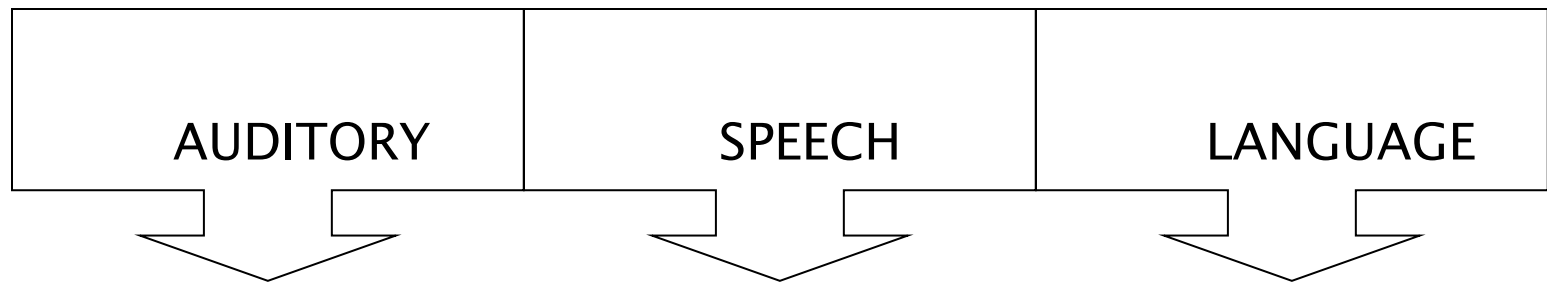


Classroom Changes

- ▶ Communication between service providers (Audiologist, Teachers and Therapists) is timely and thorough
 - Assessment updates
 - Instructional strategy changes based upon student's skills
 - Review and revise based on new information
 - Classroom description
 - Least Restrictive Environment (LRE)
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Deaf/HOH Intervention Specialists

- ▶ Collaboration/Planning
 - Completed weekly with teachers & SLP
 - Integrated Specialized Instruction



- ▶ Breakfast and Snacks
 - ▶ Transitions
- ▶ Large Group and Small Group
 - ▶ Social Skills and Scripts

Aligning Expectations

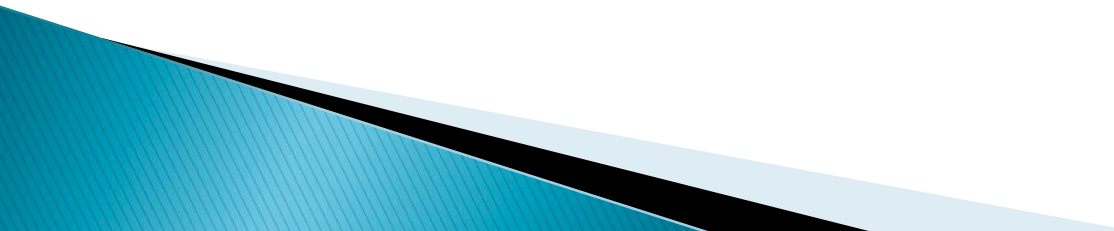
Understanding of Auditory/Visual Language A = Auditory V = Visual					
EXPECTATIONS	A	Av	AV	VA	V
• Parents	←→		←→		
• Educational Staff	←→				
• Interpreter			←→		
PERFORMANCE	A	Av	AV	VA	V
• Home	←→		←→		
• Classroom	←→				
• Interpreter				←→	

Use Of Spoken Language and/or Sign O = Oral S = Sign					
EXPECTATIONS	O	Os	OS	So	S
• Parents	←→				
• Educational Staff	←→				
• Interpreter			←→		
PERFORMANCE	O	Os	OS	So	S
• Home	←→				
• Classroom	←→				
• Interpreter			←→		

Differentiated Instruction

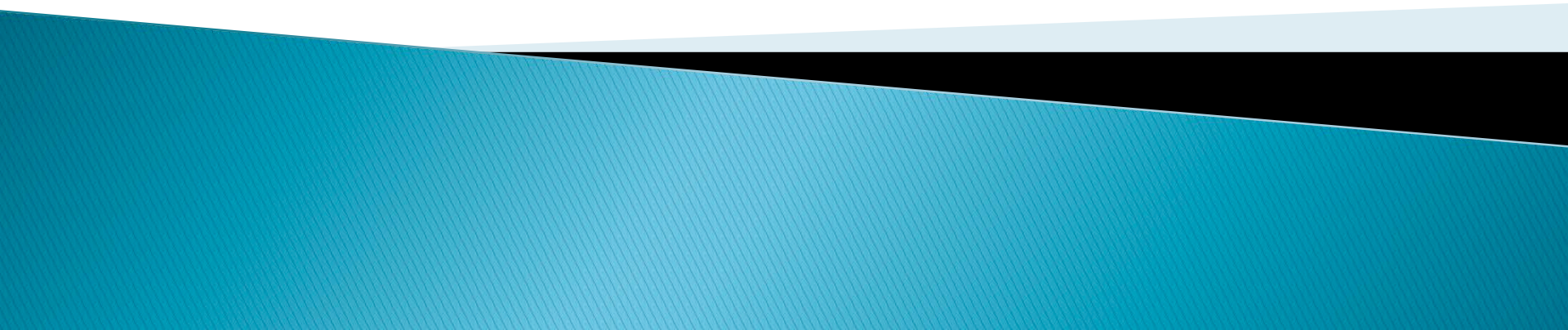


Family Support Specialist

- ▶ Active, ongoing role supporting and collaborating with families, teachers and related service providers to assist in reaching optimal outcomes
 - ▶ Guiding families of students with hearing loss through the educational process
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Sustaining Change


Evidence Based Practice



Auditory–Visual Continuum Practices

PRACTICE	EVIDENCE
Maintain supportive acoustic environments to optimize auditory access.	<ul style="list-style-type: none">• Daily listening checks• Background noise minimized• Personal/Classroom Hearing Technology used• Strategic seating• Teacher uses natural rate and volume
Encourage student development and human connections by exploring communication and learning preferences.	<ul style="list-style-type: none">• Communication Priority Pyramid• A–V Continuum

Auditory-Visual Continuum Practices

PRACTICE	EVIDENCE
Model capacity-building and help-giving practices with students and families.	<ul style="list-style-type: none">• Positive Climate• Responsiveness• Orientation• Sensitivity• Flexibility• Creativity• Friendliness
Guide the family in understanding the student's strengths/needs, exploring/ encouraging communication preferences, identifying expectations, and prioritizing focus areas.	<ul style="list-style-type: none">• A-V Continuum• SCALES Model• Performance – Expectations  The logo for the SCALES model features the word "SCALES" in a stylized font where each letter is a different color (S: blue, C: orange, A: red, L: light blue, E: pink, S: purple). The letters are placed on a dark blue horizontal bar that is supported by a grey triangular base, resembling a scale or a platform.

Auditory–Visual Continuum Practices

PRACTICE	EVIDENCE
<p>Seek whole student perspective with comprehensive assessment across developmental domains to establish goals, plan instruction, and evaluate effectiveness.</p>	<ul style="list-style-type: none">• SCALES Model• Assessment & Planning Profile• SCALES IEP• SCALES Lesson Plan
<p>Create communication plans identifying team expectations and strategies to support the student’s auditory–visual needs.</p>	<ul style="list-style-type: none">• A–V Continuum• Assessment & Planning Profile• Communication Plan• Performance–Expectations• Auditory Planning

Auditory–Visual Continuum Practices

PRACTICE	EVIDENCE
Implement an auditory–visual program model providing highly differentiated instruction in natural environments, classroom settings, and student groupings.	<ul style="list-style-type: none">• A–V Continuum• Classroom Matrix• Auditory Planning
Align adults' communication with each student's communication priorities.	<ul style="list-style-type: none">• Performance–Expectations• A–V Continuum• Classroom Matrix• Communication Plan• Interpreter Plan

Auditory–Visual Continuum Practices

PRACTICE	EVIDENCE
<p>Provide focused auditory Teaching (FAT) and embedded auditory teaching (EAT) based on the child’s auditory goals.</p>	<ul style="list-style-type: none">• Auditory Planning, EAT, FAT• Speech Perception Profile• Auditory Skills Profile• Auditory Skills Hierarchy
<p>Utilize a range of auditory and visual strategies during routine interactions and instruction.</p>	<ul style="list-style-type: none">• Auditory Planning• Embedded Auditory Teaching• Focused Auditory Teaching• Auditory Chain

Evidence of Differentiated Instruction in the Classroom

- ▶ **Auditory–Visual Continuum Practices**
 - Focus (SCALES)
 - Approach
 - Capacity building & Help–giving practices
 - Expectations
 - Auditory Environment
 - Auditory Instruction
 - Communication characteristics

Keys to Success



- ▶ Monitor Development



- ▶ Use Differentiated Models



- ▶ Ongoing Systemic Program Analysis and Development