

Collaboration & High-Quality Practices for Students with Extensive Support Needs (ESN)

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Disclaimer

Disclaimer:

- We recognize that there are many terms and labels used to describe disability and impairment, and that language continues to evolve.
- Describing various populations can be challenging given the range of terminology and perspectives.
- Our intent in this presentation is to focus on the individual child—their strengths, needs, and experiences—rather than defining them by a diagnosis.
- We aim to foster a perspective that emphasizes respect, inclusion, and support, rather than assumptions or negative perceptions of "impairment".

Children with **Extensive Support** Multiple Needs -Disabilities Identification **Extensive** Support **Needs** Sensory and (ESN) **Complex** Additional **Health Care Disabilities** (Vision, Hearing, Needs **Deafblind**)

Impact of Extensive Support Needs (ESN)

Impact of Extensive Support Needs (ESN)

Varies Based On:

- Age Of Onset
- Age Of Identification
- Access To Services/Learning History
- Degree And Type Of Vision & Hearing Conditions
- Additional Disabilities (Cognitive, Motor, Health)
- Progressive Conditions



Impact of ESN on Learning

- Sensory Information may be absent, inconsistent, unreliable or limited (Vision, Hearing, Tactile)
- Impact on Learning
 - Communication & Joint Attention
 - Social/Emotional Behavior
 - Concept Development
 - Spatial Relationships
 - Motor planning
- Need for Direct Instruction
 - Part To Whole
 - Beginning, Middle, End
 - Real Experiences and Real Objects
- Additional Disabilities may impact the ability to seek or respond to information (vision, hearing, touch)



The Range of Sensory Conditions in Deafblind Learners

The Range of Sensory Abilities & Conditions		Classification of Vision								
		Normal 20/12-20/40	Near Normal 20/40-20/60	Low Vision 20/70- 20/160 or field loss <20 degrees	Legally Blind 20/200 or less or field loss <20 degrees	Light Perception or No LP	*Cortical or Cerebral Vision Impairment (CVI)			
	Normal -10 to 15 dB									
D	Slight 16 to 25 dB									
Classification of Hearing	Mild 26 to 40 dB						*			
	Moderate-Severe 41 to 70 dB						*			
cation	Severe 71 to 90 dB						*			
lassifi	Profound 91 dB or greater						*			
O	**Auditory Neuropathy		*	*	*	*:	*			
	***Central Auditory Processing Disorder		*	*	*	*	*			

^{*}Condition Impacting the Perception and Understanding of Visual Information

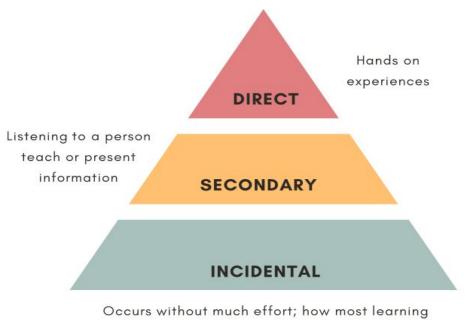
**Condition Impacting the Transmission of Auditory Information to the Brain

**Condition Impacting the Processing of Auditory Information

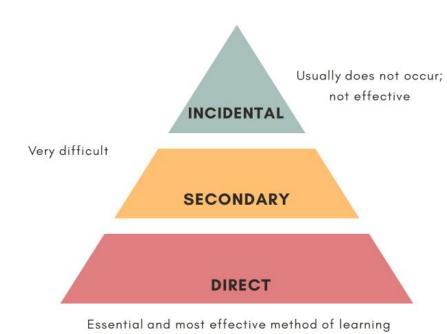
Importance of Direct Teaching for Learners with ESN (Including Deafblindness)

Typical Learning

Deafblind Learning



occurs



High Quality Practices and Instructional Considerations for Deafblind Learners

- 1. Thorough Assessment for Sensory Access & Communication
- 2. Building Trusting Relationships
- Building Consistency & Predictability
- Instructional Plan & Activity/Routines Card

NEC High Quality Practices Checklist



High Quality Practices Checklist for Deafblind Learners

Thorough Assessment for Sensory Access and Communication

Optimo	al Sensory Environments for Learning (Sensory Bubble)
	NEC Sensory Bubble Graphics
	NEC Sensory Bubble Table
Comm	unication Assessment
	Communication Matrix
	Communication Matrix Planning Tool
Comm	unication Profile & Communication Dictionary
	Holistic Communication Profile
	Communication Dictionary
Buildin	g Trusting Relationships
Identify	r Yourself (Personal Identifiers)
	Personal Identifiers
	Using voice, touch to identify yourself
	Approach child from side
Hand U	Inder Hand
	Instructor's hands placed UNDER student's hands
	Used for supporting joint attention and communication
	Child learns to follow the adult's hand
Joint A	ttention
	Critical for supporting language development, social interaction, and learning
	Consider physical proximity, tactile cues, nonverbal communication, changes
	in expression or biobehavioral states
Wait Tir	me & Pace
	Slow down pace of interactions and instruction
_	Pause within routines
	Wait for indications of understanding or anticipation

Environmenta	Il Arrangements
☐ Encour	rage exploration to navigate and interact with surroundings with minimal
suppor	t
	rt Communication: Provide clear and consistent cues for interaction
	e Anxiety: Predictable setups help learners feel secure and confident
	tivities & Routines
	peginning and ending
	ngful to student
☐ Seque	ntial
☐ Repeti	fious
Responding to	o Likes & Dislikes
☐ Prefere	ence Assessment
□ Detern	nine student Likes/Dislikes to support communication, understanding,
choice	es and activities
Offering Choi	ces
☐ Offer o	options to encourage student control over their environment
☐ Embed	d within activities and routines
Instructional	Plan, Activity/Routine Card
	Plan, Activity/Routine Card pration for Instructional Plan(s)
Team Collabo	
Team Collabo	oration for Instructional Plan(s)
Team Collabo	oration for Instructional Plan(s) Collaboration, Sensory Access & Communication Needs (Sensory
Team Collabo	oration for Instructional Plan(s) Collaboration, Sensory Access & Communication Needs (Sensory p. Profile, Dictionary)
Team Collabo Team (Bubble Create	pration for Instructional Plan(s) Collaboration, Sensory Access & Communication Needs (Sensory p. Profile, Dictionary) perfective Instructional Plan(s) Linked to Gen Ed Curriculum
Team Collabo Team 6 Bubble Create Activity Select Meaning	oration for Instructional Plan(s) Collaboration, Sensory Access & Communication Needs (Sensory p, Profile, Dictionary) seffective Instructional Plan(s) Linked to Gen Ed Curriculum y/Routines Card
Team Collabo Team 6 Bubble Create Activity Select Meaning	oration for Instructional Plan(s) Collaboration, Sensory Access & Communication Needs (Sensory p, Profile, Dictionary) p effective Instructional Plan(s) Linked to Gen Ed Curriculum p/Routines Card ngful Activities p key activities
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Team Collabo Team (Bubble Create Activity Select Meanin Identify Based Identify Step o	cration for Instructional Plan(s) Collaboration, Sensory Access & Communication Needs (Sensory, p. Profile, Dictionary) s effective Instructional Plan(s) Linked to Gen Ed Curriculum y/Routines Card ngful Activities y key activities Guided on learmer's interests and daily routines and Sequence activities into smaller steps, ensuring each step is clear and accessible
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Team Collabo Team (Bubble Create Activity Select Meaniir Child (Based Break (Include Establis Establis	pration for Instructional Plan(s) Collaboration, Sensory Access & Communication Needs (Sensory et Profile, Dictionary) et effective Instructional Plan(s) Linked to Gen Ed Curriculum ry/Routines Card Ingful Activities by key activities Guided on learner's interests and daily routines and Sequence activities into smaller steps, ensuring each step is clear and accessible table Structure

4 High Quality Practices: Effective strategies or methods that achieve learning outcomes (based on evidence)



(1) Thorough Assessment for Sensory Access and Communication

(2) Building Trusting Relationships

(3) Building
Consistency &
Predictability

(4) Instructional Plan, Activity/Routine Card

- Optimal Sensory
 Environments for
 Learning (Sensory
 Bubble)
- HolisticCommunicationProfile
- Communication Dictionary

- Identify Yourself (Personal Identifiers)
- Hand Under Hand
- Joint Attention
- Wait Time & Pace

- Environmental Arrangements
- Consistent Activities & Routines
- Responding to Likes & Dislikes
- Offering Choices

- Team Collaboration for Instructional Plan
- Select Meaningful Activities
- Identify Step and Sequence
- Create PredictableStructure

High Quality Practice #1: Thorough Assessment for Sensory Access and Communication

Determining Optimal Sensory Environment & Supports

Communication Assessment Communication Profile

Communication Dictionary

- NEC Sensory Bubble Graphics
- NEC Sensory Bubble Table

- Communication Matrix
- Communication Matrix Planning Tool

- Holistic Communication Profile
- CommunicationDictionary

The NEC Sensory Bubble & Table: Facilitating an Optimal Sensory Environment for Learning



Factors to Consider When Determining the Range or Size of the Sensory Bubble

- Type and degree of vision and hearing loss
- Use and quality of the technology
- Complexity of visual environment (lighting, visual clutter, contrast, number of people)
- Complexity of auditory environment (room acoustics and room noise -Sound to Noise Ratio - SNR)
- Time of day, child's health, and level of fatigue

Understanding the Sensory Bubble

- The adult should be positioned within the child's Sensory Bubble to ensure they can see, hear, learn, and understand effectively.
- If an adult or peer is outside the bubble, the child's ability to see, hear, learn, and understand may be limited.
- The Sensory Bubble helps explain why a child may sometimes appear to see and hear, while at other times they do not.



Case Example - Mac

Student Profile

Age: 6, enrolled in general ed 1st grade classroom w/para support

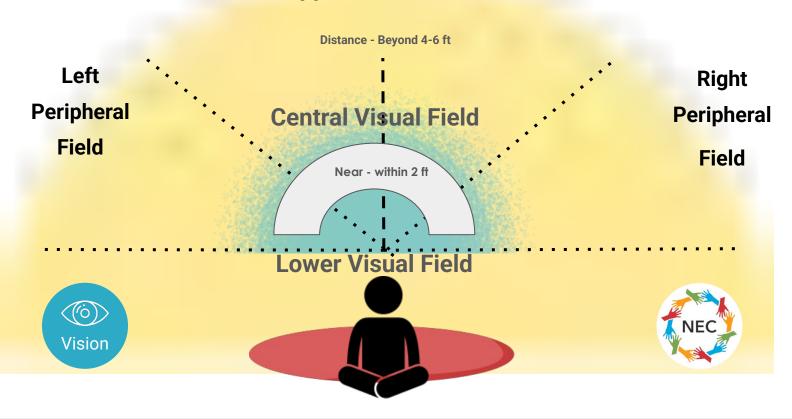
Etiology: Genetic disorder causing vision/hearing differences, delays in speech, motor skills, issues with growth/feeding (g-tube), complex health needs

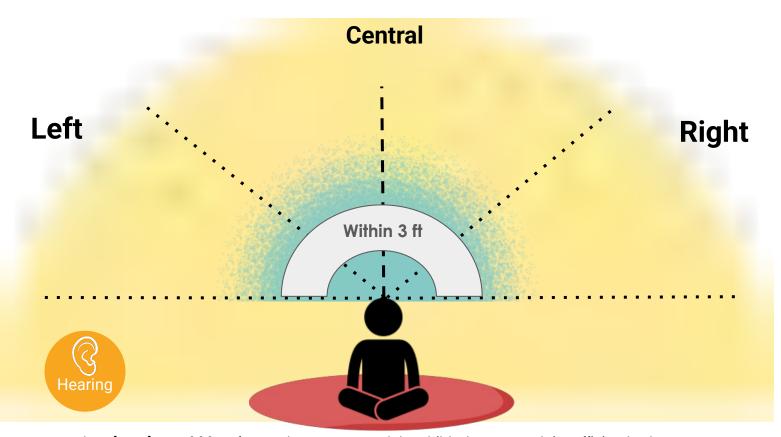
Vision: Visual acuity 20/60, Retinal dystrophy, functional vision changes over the past year incl. increased nightblindness, likely to lose more vision. Reads print, being introduced to braille instruction

Hearing: Mild bilateral hearing loss (hearing aids, FM system), receptive/expressive in spoken English

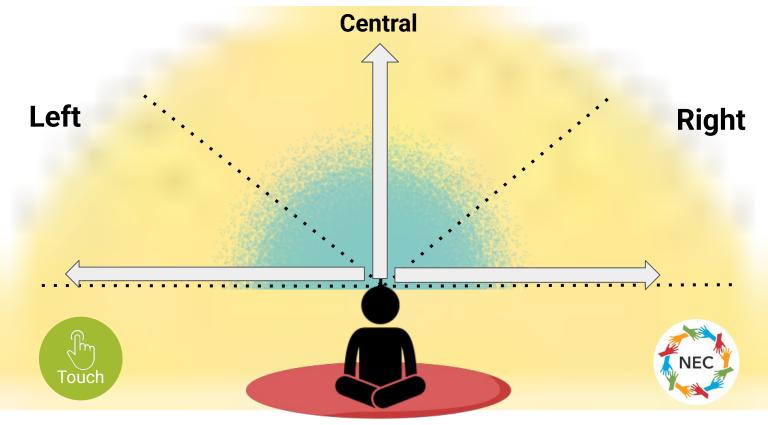


Upper Visual Field





The **Listening Bubble** refers to the area around the child where speech is sufficiently clear for comprehension. Its size depends primarily on degree of hearing loss and whether hearing technology adequately compensates to access normal acoustic environments.



Student is able to physically move towards objects/people in her environment

NEC Sensory Bubble Table

NEAR Vision	Refer to Vision Graphic	Equipment/Devices	Considerations & Strategies (examples)				
NEAR Vision: within 1 to 3 feet	NEAR Vision: On the Vision Graphic - place a *N for the best location and within the best visual field Central Slightly Off Central Left Right Upper Visual Field Lower Visual Fields	Equipment & Devices Glasses Visual Aids Lighting Low Vision Aids (magnifiers, Jupiter, monocular) Computer - Screen Software - visual scanning/tracking	Accommodations/Adaptations Consider best location/visual field (i.e., central, slightly of central) Rate of presentation (i.e., sign language, slower movement of materials/people to support visual pursuit/attention) Location/position of AAC devices (low tech and high tech Hand-Under-Hand Additional Wait Time: sec				

Communication Assessment Tool: Communication Matrix



Handbook: Online Communication Matrix (www.communicationmatrix.org)

Why Use the Communication Matrix

- Expressive communication assessment for full range of communicators (reflexive behaviors to formal language)
- Assesses the <u>reasons</u> that people communicate and the <u>behaviors</u> they use to communicate
- Families, teachers, and service providers collaborate to gather information
- Available FREE online!

Communication Matrix Levels

- Level 1: Pre-intentional Behavior
- Level II: Intentional Behavior
- Level III: Pre-symbolic, Unconventional communication (Marks beginning of intentional communication)
- Level IV: Pre-symbolic, Conventional Communication
- Level V: Concrete Tangible "Symbols" (representations)
- Level VI: Abstract Symbols
- Level VII: Language

These levels are inclusive of children & adults. (Rowland & Schweigert, 2000)

Communication Profile & Dictionary

Holistic Communication Profile (Dr. Susan Bruce)

Communication Dictionary

	EXI	PRESSIVE COMMUNICATION C	HART	
73. T	PRESSIVE COMMUNICATI ressive communication b	ON: Determine how the child use pehaviors and signals.	es different modes of expressi	ve communication
Communication Behaviors/Signals: What does the child do?	Meaning?	How Do We Respond??	Activity/Setting	Notes

High Quality Practice #2: Building Trusting Relationships

Hand-Under-Wait Time & Pace **Identify Yourself** Joint Attention Hand Personal Identifiers Critical for Slow down pace of Instructor's hands interactions and supporting placed UNDER Using voice, touch to language instruction student's hands identify yourself development, Pause within Used for social interaction. Approach child from routines supporting joint and learning side attention and Wait for indications Consider physical communication of understanding proximity, tactile or anticipation Child learns to cues, nonverbal follow the adult's communication. hand changes in expression or biobehavioral

states

High Quality Practice #3: Building Consistency & Predictability

Environmental Arrangements

Consistent Activities & Routines

Responding to Likes/Dislikes

Offering Choices

- Encourage exploration to navigate and interact with surroundings
- Support
 Communication:
 Provide clear and consistent cues for interaction
- Reduce Anxiety: Predictable setups help learners feel secure and confident

- Clear beginning and ending
- Meaningful to student
- Sequential
- Repetitious

- Preference Assessment
- Determine
 student
 Likes/Dislikes to
 support
 communication,
 understanding,
 choices and
 activities

- Offer options to encourage student control over their environment
- Embed within activities and routines.

High Quality Practice #4: Instructional Plan & Activity/Routine Card

Team Collaboration for Instructional Plan(s)

Select Meaningful Activities

Identify Step & Sequence

Create a
Predictable
Structure

- Team Collaboration,
 Sensory Access &
 Communication
 Needs (Sensory
 Bubble, Profile,
 Dictionary)
- ☐ Create effective Instructional Plan(s) Linked to Gen Ed Curriculum
- Activity/Routines Card

- Identify key activities
- ☐ Child Guided
- Based on learner's interests and daily routines

- Break activities into smaller steps, ensuring each step is clear and accessible
- Include handson experiences, opportunities for making choices

- Establish a consistent routine to foster security and anticipation
- Provide ongoing coaching and feedback for lead staff

Creating an Effective Instruction Plan



- Complete Communication Assessment (Comm Matrix)
- Complete a Holistic Communication Profile (synthesis of assessment findings, strategies, pictures/videos) and Communication Dictionary
- Develop an <u>Instruction Plan</u>(s): Organize information and locate in notebook/digital file (consider the Communication Matrix Planning Tool as an additional resource)
- 4. Condense into Activity/Routine Card (offers a bridge between home and school)

Bringing It All Together: Instruction Plan Template

<u>Template</u>

From Planning to Instruction - Team Collaboration Process

Child's Name:											
Dates/Period Covered:											
Identify DOMAIN AREA	Communication Motor (Fine Motor, Greceptive, Gross Motor, Oral Expressive) Motor)				Sensory (Vision, Academics Auditory, Touch) (Math, Science, History)		e, (Reading, (Making Choic		elf-Defermination ces, Self-Advocacy, rk Skills).		
Learning Strand:				Ш	U				J:		
IEP/IFSP Objective (Target Skill):											
Team Meetings to Address Areas for Assessment:	Sensory – Vision ▼		Sensory - Hearing		Communication - Receptive		Communication - Expressive		Tactile/Physical Support		
Vision Hearing Communication Tactile/Physical Motor	Near Distance Visual Fields Visual Fleids Visual Attention Visual Pursuit Visual Discrimination CVI Characteristics Vision Aids Comments Team/Speciality Provider:		Alerting Localizing Discriminating Sounds Identifying Sounds Repecting Sounds Spoken Language Repecting Spoken Language ALDs Comments - Team/Speciality Provider: Comments - Team/Speciality Provider:		receptive Visual Cue Visual Visu		Body Movements (reach) Visual Cue (look/orient) Tangible Symbol (touch/hold) Sign (sign gesture) Vocalization/Speech AAC Device Comments - Team/Speciality Provider: Comments - Team/Speciality Provider:		Full Touch Cue/Gesture Shoulder Elbow Forearm Hand Partial or Full Assist Tactile modeling Positioning Comments - Team/Speciality Provider: Comments - Team/Speciality Provider:		
			Interv	ention Pla	ın						
WHEN - Routine/Activity:											
WITH WHAT - Materials:											
STEPS - Activity/Routine: EXAMPLE: "Initial Make Request in Format Student Understa); (2) Introduc	e the Topic/A	ctivity (describe	e); (3) Provide	e Direction or	
STEPS - Activity/Routine:	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	
2						(c) //			-	-	
3,	-					-			1	+	

Case Example

Student Profile: Age 11 - 6th Grade, Blind, Moderate HL, Seizures, Nonverbal, Ambulates with Support

Team Members: Parents, Sped, 3 GE Teachers, TVI, TOD, SLP, SLP-A, O&M, 2 LNAs, OT, PT, DB Consultant, I-Team Ed. Consultant, I-Team AAC Consultant, I-Team Family Resources Consultant, District LEA (20)

Impetus for Change: Significant increase in self-injury led to need for in-depth assessment and collaboration

OLMC Intervention Plan



Child's Name: Oliver												
Dates/Period Covered: March 2024												
DOMAIN AREA	Communication (Receptive, Expressive) Motor; (Fine Motor, Oral Motor)		8oolal/Emotional	ADLs/Life 8kills	Bensory (Vision, Auditory, Touch)	Academics (Math, Science, History)	(Reading, Writing)	Transition/ Self-Determination (Making Choloes, Self-Advocacy, Work Skills).				
			~	\checkmark	✓							
Common Core Standard Standard:	Speech and Langua	age - EESL. 6	5.5: Select from	n an array of a	ppropriate audi	tory, visual or	actual displa	y to accompany	mpany a presentation			
IEP/IFSP Objective (Target Skill): Buildin	g Vocabulary to Sup	port Choice	Making		de de la constante de la const		45		4			
Environmental Considerations	rning spaces defined by an identifier (e.g., sign, object, photo, tactile (bot) rning space arranged to maximize (ing and vision rerials consistently positioned in the ling space (ing and organized and readily accessible (ild ortunities for learning in natural comments to support skill transfer (e.g., roome, kitchen area).		Alerting Localizing Discriminating Sounds Identifying Sounds Repeating Sounds Spoken Language Repeating Spoken Language ALDe Comments - Team/Speciality Provider:		Communication - Receptive Touch Cue/Gesture Visual Cue Tangible Symbol Vocalization Sign Speech AAC Device Comments - Team/Speciality Provider:		Expressive Body Movements (reach) Visual Cue (look/orient) Tangible Symbol (touch/hold) Sign (sign gesture) Vocalization/Speech AAC Device Comments - Team/Speciality Provider:		Tactile/Physical Support Full Touch Cue/Gesture Shoulder Elbow Forearm Hand Partial or Full Assist Tactile modeling Positioning Comments - Team/Speciality Provider:			
*Learning spaces defined by an identifier cue (e.g., sign, object, photo, tactile symbol) *Learning space arranged to maximize hearing and vision *Materials consistently positioned in the learning space *Materials organized and readily accessible to child *Opportunities for learning in natural environments to support skill transfer (e.g., bathroom, kitchen area) *Entrances to learning spaces marked with identifier cue												

WHEN - Routine/Activity: Before and After Each Scheduled Activity

WITH WHAT - Materials: Arrival (sensory room); Morning Meeting (classroom; choice -); Allied Arts - PE/ART (separate rooms; choice -); Bathroom (tactile symbol; choice -); Rest Time (choice -); Recess (choice -); Bathroom (tactile symbol; choice - ; Lunch (symbol?); Math (classroom); Humanities (class); Dismissal (packs up/home; place cross body bag on shelf next to calendar boxes)

BEFORE - STEPS in Activity/Routine	Date									
(1) Gain the Student's Attention - Joint Attention: (a) Place your hands under O's hands to start the interaction (wait for him to alert); (b) Present your personal identifier into O's hands and state your rame and Sign/verbal greeting								y 5		
(2) Introduce the Topic/Activity: (a) Sign/Verbal - label activity: "Time for us to check today's schedule"; (b) Driect O to schedule location using human guide); (c) provide HUH to put cross-body bag on,									13	
(3) Steps: Follow these steps for each activity on the schedule: (a) Directs O's hands to each object in the schedule and provide sign/verbal label for each: (b) Then, (b) sake to the 1st item, coactively take the object out of the schedule container. Sign/label activity 'Now it's time for '; (c) Encourage O to hold/explore the tactile features of the item; (d) Wait 3-5 seconds for O to respond/grap and explore item; (e) Coactively place item in cross body bag 'Sign/label' Put in'; (f) Travel to the activity										
(4) (a) Travel back to the calendar system Provide HUH guidance and say/sign " is all done", (b) Juing HUH, encourage Ollie to imitate sign/gesture (c) Encourage O to place the object in the " all done bucket"; (d) Move to the next scheduled activity/object in the calendar system										
POSSIBLE STUDENT RESPONSES: Consider accuracy, latency, and degree of independence										

Activity/Routine Card



New England Consortium on Deafblindness

Activity/Routine Card Template

Purpose: The Activity/Routine Care is intended to simplify instructional components for easy reference in the home or classroom

Considerations

- Degree of sensory loss (vision, hearing, tactile/motor)
- Level of physical assistance needs
- Communication (objects, pictures, tactile cues, switch/signal device)
- Response time

Materials

Object symbols, felt board

Steps

- Establish joint attention with OLMC through the use of a touch cue. Touch cues should begin
 with a tap on OLMC's elbow, slowly bringing your hand down his arm until your hand is
 underneath OLMC's hand.
- Establish the topic. Let OLMC know that he will be making a choice by introducing it with the object symbol for "choice making" paired with sign/spoken language by saying, "Time to make a choice".
- Bring your hand to his elbow and bring your hand under his hand. Introduce each choice on the felt board through tactile touch and sign/spoken language.
- Wait for OLMC to respond after each choice. Repeat steps two and three until the child has been introduced to all of his choices.
- 5. Prompt OLMC to make a choice by using a touch cue to guide him toward the felt board.

Response

Correct Child Response:

OUMC responds to the choice by reaching for the or touching the object symbol for the activity he wants

After Correct Child Response:

Give OLMC sign/verbal reinforcement such as "good job" and move on to the activity.

Resources for Your Teams/Programs

- NEC High Quality Practices Checklist
- NEC Sensory Bubble Graphics
- NEC Sensory Bubble Table
- Communication Matrix
- Communication Matrix Planning Tool
- Holistic Communication Profile (Dr. Susan Bruce)
- Communication Dictionary
- NEC Intervention Plan Template
- NEC Activity and Routine Card



Thank You!



References

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