Evidence Based Practice Training:

Augmentative and Alternative Communication (AAC)

Adapted from Steinbrenner, J.R. et.al. (2020). Augmentative and Alternative Communication Evidence-Based Practices for Children, Youth, and Young Adults with Autism Spectrum Disorder Report, National Clearinghouse on Autism Evidence and Practice (NCAEP)

https://ncaep.fpg.unc.edu/





What is CAPTAIN

The California Autism Professional Training And Information Network (CAPTAIN) is an interagency network developed to support the understanding and use of evidence based practices (EBPs) for individuals with Autism across the state of California.





What is CAPTAIN

Marin County SELPA in partnership with CAPTAIN, are members of the Statewide System of Support

as the Special Education Content Lead for Autism.

This project is funded by the California Department of Education and the California Collaborative for Educational Excellence.











Levels of Professional Development to Reach Implementation







Before We Begin...

Please complete the **Pre-Training Survey** sent to your email







Learning Objectives



Define Evidence-Based Practices for Autism

Define Augmentative and Alternative Communication (The Basics)

Describe how to develop a plan for using AAC

Describe how to successfully implement AAC in your instructional setting.





What are Evidence Based Practices?



NCAEP definition of an EBP:

"Focused intervention practices that have evidence of efficacy in promoting positive outcomes for learners with ASD."

Steinbrenner, J. R., Hume, K., Odom, S. L., Morin, K. L., Nowell, S. W., Tomaszewski, B., Szendrey, S., McIntyre, N. S., Yücesoy-Özkan, S., & Savage, M. N. (2020). Evidence-based practices for children, youth, and young adults with Autism. The University of North Carolina at Chapel Hill, Frank Porter Graham Child Development Institute, National Clearinghouse on Autism Evidence and Practice Review Team.





Evidence Based Practice Matrix (28 EBPs)

Table 3.7 Matrix of evidence-based practices, outcomes, and age categories

Evidence-Based		cader -acad	nic/ demic	Ac Se	daptiv	ve/ elp	In	allen; iterfe oehav		Co	ognit	ive		ommu catio			Joint			Menta healt		1	Moto	or		Play			Schoo		det	Self- ermina	ation		Socia	ı	Vo	cation	nal
Practices See Table 3.1 to link abbreviations to EBPs	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years
ABI																																							
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CBIS																																							
DR																																							
DI																																							
DTT																																							
EXM																																							
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FBA																																							
FCT																																							
MD																																							
MMI																																							
NI																																							
PII																																							
PBII																																							
PP																																							
R																																							
RIR																																							
SM																																							
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SN																																							
SST																																							
TA																																							
TAII																																							
TD																																							
VM																																							
VS																																							



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Selecting EBPs

Before beginning a new practice with a learner, it is important to follow four planning steps

- 1. Identify the behavior
- 2. Collect baseline data on the behavior
- 3. Establish an observable and measurable goal
- 4. Choose an EBP
 - Consider the child and family characteristics
 - Consider the teacher and team characteristics
 - Consider other available resources





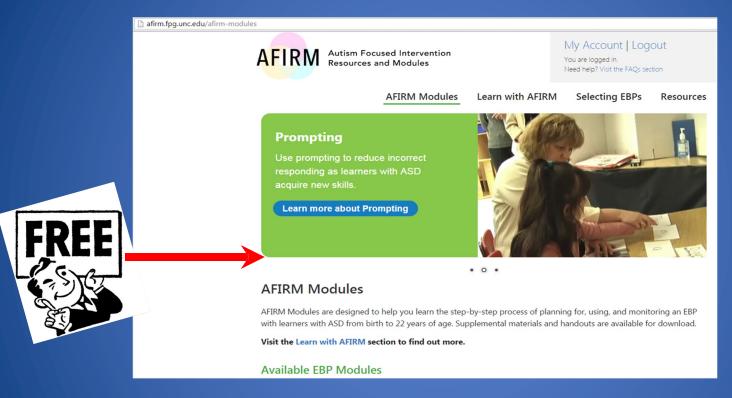
Selecting an EBP Checklist

AFIRM Resour	ces & Modules for more information, please visit: http://doi.org/10.1001/j.ces.	ecting an EBP Checklist s://afirm.fpg.unc.edu/	AFIRM Autism Focused Intervention Resources & Modules CHECK ANNUAL GOAL FOR:	Selecting an EBP Checklist For more information, please visit: https://afirm.fng.unc.adu/	AFIRM Autism Focused Intervention Resources & Modules	for m	Selecting an EBP Ci ore information, please visit: https://efirm.fpg.u
¥ = 1	Selecting an EBP Checklist Learner's Name: Date/Time: Observer(s): Target Goal/Behavior/Skill (short): Directions: Complete this checklist to select an appropriate practice to use with	AFIRM	Context (When/Antecedent) Target goal/behavior/skill (What/Behperform) Mastery (How/Criterion for learner pages)	progress/mastery Yes No	SELECT AN EBP:		
	ASD.		IDENTIFY CHARACTERISTICS, CLUE Child and Family Characteristics	S, AND RESOURCES:	IE ADDITION DE IDENTI	EV ADDITIONALS EDDS T	O DE LIGED WITH THE
IDENTIFY	TARGET GOAL/BEHAVIOR/SKILL:		Student strengths:	Student challenges:	SELECTED EBP:	FY ADDITIONALS EBPS TO	O RE OSED MITH THE
					Reinforcement (R+)	☐ Prompting (PP)	☐ Modeling (MD)
			Has worked before (home/school):	Has not worked before (home/school):	☐ Task Analysis (TA)	☐ Time Delay (TD)	☐ Visual Supports (VS)
COLLECT	BASELINE DATA (OR USE SELECTING AN EBP DATA COL	LECTION	Teacher/Team Characteristics		☐ Functional Behavior Assessment (FBA)	D	
SHEET):			Knowledge level:	Successfully used EBPs:	Assessment (FBA)		
Date/Time	Frequency/Duration	Total			ADDITIONAL NOTES:		
			Clues found in the IEP Goal				
			Goal domain:	Potential EBPs (Refer to the Domain Matrix):			
			Other Resources				
			Current student supports:	Available equipment:			
DEELNIE A	N. ODCEDY/ADJE AND MEACHDADIE IED COAL						
DEFINE A	N OBSERVABLE AND MEASURABLE IEP GOAL:		Team members:	Additional learning experiences:			
QUNC	TRANSE POSTES GRAMAS PRINCE POYCLOPHENE MOSTRUTE THE Science Professional Nonlinguist Center THE SCIENCE PROFESSIONAL CENTER THE	Selecting an EBP AFRM Team, 2020-R Page 1 of 3	QUNC PARAME POSITES GARAMAS ORGA DEVELOPMENT RESTRICTE AND TO	Selecting on EBP AFISH Team, 2020-R Page 2 of 3			





High Quality Training: <u>Autism Focused Intervention Resources and Modules</u> (AFIRM)





www.captain.ca.gov http://afirm.fpg.unc.edu/afirm-modules





Login Sign Up

AFIRM MODULES

http://afirm.fpg.unc.edu

AFIRM Modules

COVID-19 Toolkit

Earn CE Credits

Selecting EBPs

Supporting Peer Interactions: Introduction & Practice

This elearning module targets the basic rules of supporting peer interactions and provides interactive case activities for discussing a plan for, using, and monitoring peer interactions.



BUNC | manuscripe management |

AFIRM Modules

Our funding has ended. Find out how to continue to support AFIRM and keep

Support AFIRM

AFIRM Modules are designed to help you learn the step-by-step process of planning for, using with learners with ASD from birth to 22 years of age. Supplemental materials and handouts a

Download an overview of the Components of AFIRM to learn about modules, resources, an options.

Visit the Learn with AFIRM section to find out more.

To learn more about the updated EBPs, check out the National Clearinghouse on Autism Evic

Get started - it's free and easy!

Introduction to Autism Spectrum Disorder



Introduction to ASD

→ Hide description

Autism spectrum disorder (ASD) is a lifelong developmental disability that prin communication.

Time to complete:

This module will take approximately 2 - 3 hours to complete.

Available EBP Modules

ABI

Antecedent-based Intervention

Hide description

Antecedent-based interventions can be used to decrease an identified interfering behavior and increase engagement by modifying the environment.

Time to complete:

This module will take approximately 1.5 - 2 hours to complete.

AAC

Augmentative & Alternative Communication

→ Hide description

Augmentative and alternative communication (AAC) can be used to increase study communication, socialization, and engagement while reducing interfering behaviors.

Time to complete:

This module will take approximately 1.5 - 2 hours to complete.

Select Module

ASI

Ayres Sensory Integration

→ Hide description

Ayres Sensory Integration® (ASI) can be used to increase learner communication, socialization, cognitive, and adaptive skills while reducing challenging behaviors in learners with identified challenges in sensory processing.

Time to complete:

This module will take approximately 1.5 - 2 hours to complete.

Select Module



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Evidence (Age and Domains)

		Age Ranges											
Outcome Areas		0-2 Toddlers	3-5 Preschoolers	6-11 Elementary School	12-14 Middle School	15-18 High School	19-22 Young Adults						
	Communication	✓	✓	✓	1	✓							
	Social	✓	✓	✓		1							
	Joint attention	✓	✓	✓									
	Play	✓	✓	✓									
	Cognitive												
	School readiness												
	Academic/ Pre-academic		✓	1									
	Adaptive/ self-help												
	Challenging/ Interfering behavior		1	1									
₩.=	Vocational												
	Motor					✓							
(P)3	Mental health												
التركياع	Self- determination												





Communication

- is a critical foundational skill
- impacts independence, academics and social success
- is a fundamental human skill
- is a right every student has
- ensures that all students have an effective way to communicate their needs
- reduces interfering behavior in the classroom and at home







Expressive Communication



Expressive Communication is defined as "one's ability to communicate thoughts and feelings through words, gestures, or facial expressions."











What is Augmentative and Alternative Communication (AAC)?

Interventions that use a system of communication that is not verbal/vocal including aided and unaided communication systems.







Unaided Communication Systems

Do not use any materials or technology

Sign Language
Gestures
Body Language/Facial Expressions
Proximity
Behavior





Aided Communication

Uses materials or technology

Low tech

exchanging objects

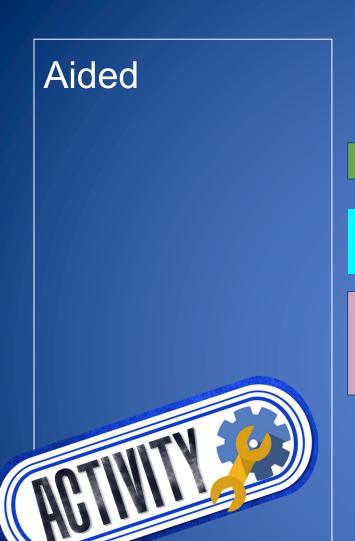
pictures

pointing to letters

High Tech
speech generating devices
applications on other devices (phones, tablets)







Speech Generating Devices

Facial Expressions

Eye Gaze Sign Language

Software Applications with a device

Core Boards

Gestures

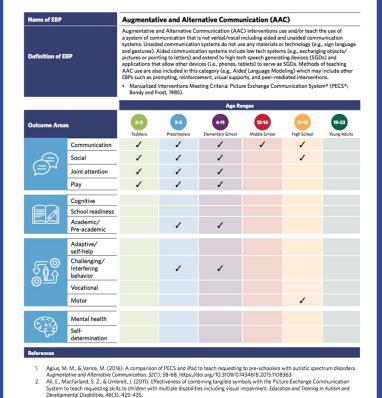
Picture/Object Exchange systems







INTERVENTION FACT SHEET NCAEP Report April 2020



Almirall, D., DiStefano, C., Chang, Y.-C., Shire, S., Kaiser, A., Lu, X., Nahum-Shani, I., Landa, R., Mathy, P., & Kasari, C. (2016). Longitudinal effects of adaptive interventions with a speech-generating device in minimally verbal children with ASD. *Journal of Clinical Child & Adolescent Psychology*, 43(4), 442-456. https://doi.org/10.1080/15374416.2016.1138407.
 Alzrayer, N. M., Banda, D. R., & Koul, R. (2017). Teaching children with autism spectrum disorder and other developmental disabilities to perform multistep requesting using an iPad. *Augmentative and Attensive Communication*, 33(2), 65-76. https://doi.org/10.1080/0743461

- Definition of the intervention
- Age Range
- Outcome Areas
- References (specific articles that provide the evidence for the efficacy of the practice)

8 20171306881

Evidence (Age and Domains)

		Age Ranges											
Outcome Areas		0-2 Toddlers	3-5 Preschoolers	6-11 Elementary School	12-14 Middle School	15-18 High School	19-22 Young Adults						
	Communication	✓	✓	✓	✓	✓							
	Social	✓	✓	✓		✓							
	Joint attention	✓	✓	✓									
	Play	✓	✓	✓									
	Cognitive												
	School readiness												
	Academic/ Pre-academic		1	1									
	Adaptive/ self-help												
	Challenging/ Interfering behavior		1	1									
₩.=	Vocational												
	Motor					✓							
(Final	Mental health												
(4.7) J	Self- determination												





Who is a candidate for AAC?

- Anyone who is not able to communicate effectively with speech alone
- Anyone who is partially able to communicate with speech but may not be understood by others
- Anyone who has adequate speech but needs supports for writing or extending conversations





What goals can be addressed through AAC?

Increase Communication (examples)

- Requesting (desired objects/activities)
- Protesting (undesired objects/activities/action by someone else)
- Commenting (about activities and events of interest)







What goals can be addressed through AAC? (continued)

Increase Social Participation and Engagement (examples)

- Greetings teachers and peers
- Requesting a turn
- Taking a turn
- Asking for materials from a peer







What goals can be addressed through AAC? (continued)

Increase engagement in academic/preacademic tasks (examples)

- Requesting more of an activity
- Answering a question
- Asking for clarification
- Participating in classroom routines







What goals can be addressed through AAC?

Increase Play Skills (examples)

Using symbolic play skills

Increase Vocabulary acquisition (examples)

- Applying core academic vocabulary during class activities
- Learning new concepts/vocabulary during book reading activities
- Practicing social vocabulary in settings like recess group work and lunch

Reduce Interfering Behaviors (examples)

- Express feelings without interfering behaviors
- Requesting a break







How does AAC help learners?

Uses Visual Supports



- Reduces social pressure
- Serves as a communication model for children who are developing speech
- Motivates learners to communicate
- Increases social interaction with peers





Where can AAC Training Be Implemented?

SCHOOL

playground
cafeteria
classroom centers
bathroom
bus
passing period

HOME

cooking
chores
bathroom routines
bedroom routines
homework routines

COMMUNITY

stores
public bathrooms
work environment
public transportation
restaurants
library





Who can Implement AAC Training?

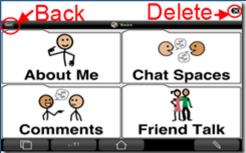
This practice can be used by a variety of professionals, including teachers, special educators, therapists, paraprofessionals, and early interventionists in educational and community-based environments. Parents and family members also can use this practice in the home.



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Methods of Teaching AAC

Aided Language Modeling

Using other EBPs

Peer-Based Instruction and Intervention
Reinforcement
Prompting
Visual Supports
Modeling





Picture Exchange Communication System ®



The 2020 NCAEP report reclassified **PECS**® as a Manualized Intervention Meeting Criteria (MIMCs)

A MIMC is operationally defined as interventions that a) are manualized, b) have unique features that create an intervention identity, and c) share common features with other practices grouped within the superordinate EBP classification

Instead of **PECS**® remaining a stand alone EBP, it was grouped into the AAC EBP as a MIMC

PECS® is an AAC system developed in 1985 by Andy Bondy, PhD, and Lori Frost, MS, CCC-SLP.





What is PECS®?

https://pecsusa.com/pecs

"The **PECS**® teaching protocol is based on B.F. Skinner's book, Verbal Behavior, and broad spectrum applied behavior analysis.

Specific prompting and reinforcement strategies that will lead to independent communication are used throughout the protocol.

The protocol also includes systematic error correction procedures to promote learning if an error occurs. Verbal prompts are not used, thus building immediate initiation and avoiding prompt dependency.

PECS® consists of six phases and begins by teaching an individual to give a single picture of a desired item or action to a "communicative partner" who immediately honors the exchange as a request. The system goes on to teach discrimination of pictures and how to put them together in sentences. In the more advanced phases, individuals are taught to use modifiers, answer questions and comment.

The primary goal of **PECS**®is to teach functional communication. Research has shown that some learners using **PECS**® also develop speech. Others may transition to a speech generating device (SGD)."





PICTURE EXCHANGE COMMUNICATION SYSTEM ®







How to learn more about PECS®

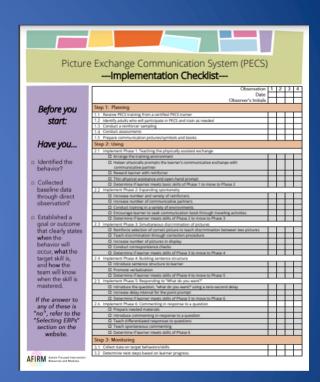
Get trained!

The AFIRM Implementation Checklist states as the first step: "Receive PECS training from a certified PECS trainer"

https://pecsusa.com/pecs/

Review the AFIRM online training module:

https://afirm.fpg.unc.edu/picture-exchangecommunication-system







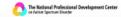
---Implementation Checklist---

AAC

	Observation:	1	2	3	4	5
	Date:					
	Observer's initials:					
	STEP 1: PLANNING			,		
Before you start, have you?	1.1 Determine if an AAC assessment may be appropriate for a learner					
_	1.2 Conduct an AAC assessment		_			
Identified the target goal/behavior/skill?	1.3 Discuss technology and AAC preferences with family and learner					
☐ Collected baseline	1.4 Identify available AAC resources			L		
data through direct observation?	1.5 Select additional EBPs for teaching use of the AAC system		L			
☐ Established a target	1.6 Plan opportunities for the learner to use AAC		L	L		L
goal or outcome that clearly states when	1.7 Identify and train team members					
the behavior will occur, what the target	1.8 Prepare and have materials ready and available					
goal or outcome is, and how team	STEP 2: USING					
members and/or observers will know	2.1 Teach learner to use AAC device					
when the skill is mastered?	2.2 Understand formalized AAC teaching approaches					
If the answer to any of	2.3 Give reinforcement					
the above questions is 'No,' review the	2.4 Ensure consistent use of AAC across settings					
process of how to select an EBP .	STEP 3: MONITORING					
	3.1 Collect and analyze data					
	3.2 Monitor use of AAC across settings					
	3.3 Troubleshoot issues (if needed)					
	3.4 Determine next steps based on learner progress					

AAC Implementation Checklist







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Planning AAC

- Determine if an AAC Assessment is appropriate for the learner
- Conduct an AAC Assessment
- Discuss technology and AAC preferences with family and learner
- Identify available AAC resources
- Select additional EBPs for teaching use of the AAC system
- Plan opportunities for the learner to use AAC (tools such as an activity Matrix, activity specific core boards)
- Identify and train team members
- Prepare and have materials ready and available





Determine if an AAC Assessment Might Be Appropriate for a Learner

IEP TEAM
IDENTIFIES A
POTENTIAL
NEED

Conduct an AAC assessment





	Assessment Checklist Work	csheet-	- AAC
1	Learner's Name: Date/Time: _ Observer(s): Target Goal/Behavior/Skill (short): Directions: Complete this worksheet to determine if an assessment	ent for AAC is ne	eeded
C SP	ECIFIC PLANNING:		
	the learner making little progress toward communication als during academic or social parts of the school day?	☐ Yes	□ No
be	the learner showing frustration or other negative haviors when there are communication demands placed them during the school day?	☐ Yes	□ No
tin	o the learner's teachers, family, and/or peers have a hard ne understanding the learner's current communication or oken language?	☐ Yes	□ No
ac	pes the learner seem interested in participating in tivities or communicating with others but lack the nguage to do so effectively?	☐ Yes	□ No
5. Do	oes the learner show little engagement in daily activities seem withdrawn?	☐ Yes	□ No
co	as the learner's family mentioned communication ncerns or the desire for the student to have more fective communication?	☐ Yes	□ No
	pes the learner seem to have matured beyond their rrent AAC system?	☐ Yes	□ No
ough	wered yes to any of these questions, then the learner n assessment with your school speech-language patholo gy specialist.		



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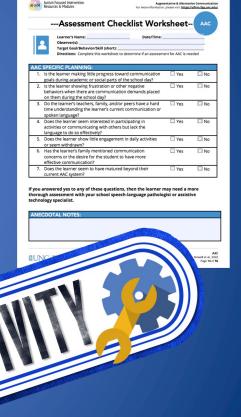
Break out Room Activity

In your break out room have one person think of a student they are currently working with.

Using the Assessment Checklist Worksheet, go around the room and have each person in your group ask a question on this sheet in order to familiarize your group with the student.

Ask probing questions if needed to be able to come to a conclusion at the bottom of the page

Repeat with another group member ansverse the questions about their identified stude







Planning for AAC:

Assessing the Need

Determine if an AAC assessment may be appropriate for a learner.

IEP TEAM
IDENTIFIES A
POTENTIAL
NEED

TRIGGERS AN ASSESSMENT PLAN SLP WITH THE SUPPORT OF THE TEAM COMPLETES AN AAC NEEDS ASSESSMENT

Conduct an AAC assessment



SELPA Content Lead
EVIDENCE
Based Practices
—Autism—

Conducting an AAC Assessment Who makes up the TEAM?

AAC Training should only be implemented after a formal AAC Assessment has been completed by a team of qualified professionals.

- SLP
- General Education/Special Education Teacher(s)
- Family
- OT, PT, VI, OI specialists (as needed)

The speech-language pathologist should be the primary voice in helping the team to complete the assessment, and to develop a plan and supervise the implementation of AAC.





Discuss technology and AAC Preferences with Family and Learner

Discuss technology and AAC preferences with family and

learner

Tools to use to gather the

information:

Surveys

Interviews

Observations

Probes



Autism Focused Intervention Resources & Modules







For more information, please visit: https://afirm.fpg.unr.edu/

---Family Considerations---

Identify Available AAC Resources

Funding Resources to Consider if IEP Identifies a need for high tech equipment/device:

- School District Resources
- Low Incidence Funding if the student qualifies (Severe Orthopedic Impairment, Visual Impairment, Deaf-Hard of Hearing, Deaf-Blind, or any combination of these)





Select Additional EBPs for Teaching Use of the AAC System

Using other EBPs

Peer-Based Instruction and Intervention Reinforcement Prompting/Time Delay Visual Supports Modeling





EBP Description Reinforcement Plan how to reward/motivate AAC use in all contexts by creating a reinforcement schedule. Establish a hierarchy of least-to-**Prompting** most restrictive prompts to use the AAC system. Visual Supports, These other EBPs also support teaching Peer-Based of AAC please refer to AFIRM module Instruction, Video for more details. Modeling, Time Delay Modeling





Augmentative & Alternative Communication For more information, please visit: https://afirm.fpg.unc.edu/

---R+ Checklist & Sampling---





Learner's Name:	Date/Time:	
Observer(s):		

Target Goal/Behavior/Skill:

Directions: Use this checklist to select reinforcers/rewards based on the learner's preferred items, interests, and activities.

CONDUCT A REINFORCER SAMPLING:

- Sit in front of the learner and hold up two iter
- Wait 10 seconds for the learner to indicate se learner (e.g., verbalization, pointing, using an
- Place the selected object in a container for lead not selected container.
- Repeat steps 1 through 3 until half of the obje

Item 1	Selection		
	☐ Yes	□No	
	☐ Yes	□ No	
	☐ Yes	□ No	
	☐ Yes	□ No	
	□ Yes	□ No	
	□ Yes	□ No	
	□ Yes	□ No	
List:			

	m Focused Intervention urces & Modules	Augmentative & Alteri For more information, please visit: http://www.news.news.news.news.news.news.news.n	
	Prompti	ng Hierarchy	AAC
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Learner's Name: Observer(s): Target Goal/Behavior/Skill: Directions: Use this checklist to dethe target skill.	Date/Time:	ner's needs an

PROMPTS:

- Gestural a physical movement that provides the learner with information about how to perform the target skill/behavior
- Independent the learner is able to perform the target skill/behavior without assistance or support from others
- Model demonstrating the correct way to perform the target skill/behavior for the learner.
- Physical hands-on assistance given to the learner to support them to perform the target skill/behavior
- Verbal any spoken words direct to the learner to help them perform the target skill/behavior
- Visual a picture, icon, or physical object used to provide the learner with information on how to perform the target skill/behavior

DETERMINE PROMPT ORDER:					
Level	Prompt	Instructions			
Level 1	Independent				
Level 2					
Level 3					
Level 4					
Level 5					
Level 6					











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Select additional EBPs for teaching use of the AAC system

Plan Opportunities for the Learner to Use AAC

Consider Goals the IEP team has developed for use with a student and determine when these goals can be addressed within naturally occurring routines and activities. Link Goals to Communicative Function.

Tools:
Communicative Goals Plan
Activity Matrix
Activity Specific Core Boards

AFIRM Autism Focused Intervention Resources & Modules	For more in	Augmentative & Alternative Communication formation, please visit: https://afirm.fpg.unr.edu/
Com	municative Goa	ls Plan AAC
communication partr	or/Skill: communicative goals for the learner ner the learner will work on these go	
IDENTIFY TIMES TO USE A	AAC SYSTEM:	
Communicative Goal/Function	Setting/Activity	Communication Partner
		Teacher





So Many Reasons to Communicate! Express Greetings Gratitude Ask a Question Monners Indicate Discomfort Express **Opinions** Action & Activity Express Ideas Ask for Help Tell a Story Requests Name & Label Why Communicate? Express Share Person & Wants & Object Information Needs Answer Questions Protest & Reject Make Create Comments Closeness Share Hopes & Share **Dreams** Memories Tell a Joke Converse End a Make up a Conversation Story Sustain a Initiate a Conversation Conversation That's Why!

Plan Opportunities for the Learner to Use AAC:
Communicative Functions













Identify and Train Team Members

Discuss technology and AAC preferences with family and learner

Recommendation: Speech-Language Therapist and AAC Specialist take the lead on training other team members

- 1. Include regular communication partners: Classroom teacher, parents, paraprofessional and the learner.
- 1. Later: train peers





Identify and Train Team Members

American - Speech, Language and Hearing Association (ASHA) has developed guidelines for training team members in the use of AAC.

It is recommended that any SLP or AAC Specialist who is involved in training others refer to these guidelines for details.

(Reference the AFIRM module or www.asha.org)





Prepare And Have Materials Ready and Available

Discuss technology & AAC preferences with family & learner





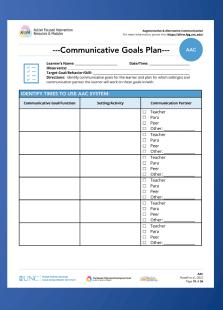


Break out Room Activity With Feedback

Using three goals your group develops for a specific child who uses AAC, complete the Communicative Goals Plan worksheet.

Remember the same goal can be indicated on multiple lines of your planning sheet.









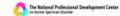
---Implementation Checklist---

AAC

	Observation:	1	2	3	4	5
	Date:					
	Observer's initials:					
	STEP 1: PLANNING					
Before you start, have	1.1 Determine if an AAC assessment may be appropriate for a learner					
	1.2 Conduct an AAC assessment					
Identified the target goal/behavior/skill?	1.3 Discuss technology and AAC preferences with family and learner					
☐ Collected baseline	1.4 Identify available AAC resources					
data through direct observation?	1.5 Select additional EBPs for teaching use of the AAC system					
☐ Established a target	1.6 Plan opportunities for the learner to use AAC					
goal or outcome that clearly states when	1.7 Identify and train team members					
the behavior will occur, what the target	1.8 Prepare and have materials ready and available					
goal or outcome is, and how team	STEP 2: USING					
members and/or observers will know	2.1 Teach learner to use AAC device					7
when the skill is mastered?	2.2 Understand formalized AAC teaching approaches				<u> </u>	A
If the answer to any of	2.3 Give reinforcement				V	
the above questions is 'No,' review the	2.4 Ensure consistent use of AAC across settings					
process of how to select an EBP.	STEP 3: MONITORING					
	3.1 Collect and analyze data					
	3.2 Monitor use of AAC across settings					
	3.3 Troubleshoot issues (if needed)					
	3.4 Determine next steps based on learner progress					

AAC Implementation Checklist







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Using/Implementing AAC

- Teach learner to use AAC device
- Implement formalized AAC teaching approaches
- Give reinforcement
- Ensure consistent use of AAC across settings





Teach Learner To Use AAC Device

SLPs or AT specialists will lead the team in determining strategies to support the learner.

Recall the following from your planning steps:

- the settings
- communication partners
- communication goals by function
- EBPs





Understand Formalized AAC Teaching Approaches

Teaching Approaches:

- Aided Language Modeling
- Core Vocabulary Approach
- EBPs: Prompting, Modeling,
 Reinforcement, Functional
 Communication Training
- Total Communication

Teaching Approaches might be specific to a system:

DISCLAIMER:

Note that some of these approaches are not recognized evidence-based practices but are commonly used and may have some research evidence to support them. The descriptions are only to familiarize you with common AAC teaching approaches, they are <u>not endorsed</u> by AFIRM or the American Speech-Language Hearing Association (ASHA).











Give Reinforcement

Some communication goals, utilizing AAC have more natural reinforcers (example: making choices or requesting objects that are highly desired).

When the task is not as intrinsically motivating during less preferred activities, you may need to be provide a more formal or structured schedule of reinforcement utilizing external motivators.





Give Reinforcement

Basic Elements of Reinforcement:

- Be consistent with the schedule of Reinforcement.
- Remind the student of what they are working for before starting the task.
- Provide reinforcement immediately after completing the target skill.
- Vary the types of reinforcement used (high fives, social praise, stickers, access to preferred activity or object)

Refer to AFIRM Reinforcement Module, AFIRM for Paras





Ensure Consistent Use of AAC Across Settings

Suggestions for School:

Make sure device/system is portable



- Coordinate with other staff the important details of transporting the device, prompting that is necessary for device usage, and maintenance that may be required
- Device/system should not be withheld from the learn even if it is perceived as being misused
- Consider how the device will be transported home (backpack, held by student, bus communication)





Ensure Consistent Use of AAC Across Settings

Suggestions for Collaboration with Family:

- Consider how the device will be transported home (backpack, held by student, bus communication)
- Inform the family about proper care and storage of the device/system at home





---Implementation Checklist---

AAC

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	3.1 Collect and analyze data	1		7		
	3.2 Monitor use of AAC across settings		/			
	3.3 Troubleshoot issues (if needed)		Ľ			
	3.4 Determine next steps based on learner progress					

AAC Implementation Checklist







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Monitoring the Implementation of AAC

- Collect and analyze data
- Monitor use of AAC across settings
- Troubleshoot Issues if needed
- Determine next steps based on learner progress





Collect and Analyze Data

Important Things To Monitor:

- Number of opportunities to communicate;
- Who the communication partners are (i.e., peers, adults, family members;
- Level of support needed to use the communication system/device (prompts needed, time required etc.)

	Data Collection	on: Frequen	cy
N	Learner's Name: Observer(s): Target Goal/Behavior/Skill: Directions: Collect data on the frequency goal/behavior/skill to determine if the lea	cy of the learner demonstrati	
ONITORI	NG DATA:		
Activity	Communication Partner	Comment Opportunities (Tally each opportunity)	Support/Prompts Needed
	□Teacher □Peer □Para □Other:		
	□Teacher □Peer □Para □Other:		
	□Teacher □Peer □Para □Other:		
	□Teacher □Peer □Other:		
	□Teacher □Peer □Para □Other:		
	Verbal; G = Gestural; M = Model; P = Phys	I = No prompts needed	/Independent





Monitor Use Of AAC Across Settings

- Collect data from a variety of communication partners: family, peers, teachers, community members and the student
- Gather data from emails, texts, sticky notes on the communication system/device, photographs/videos
- Schedule phone calls or zoom meetings for regular check-ins.





Troubleshoot Issues If Needed

- Data gathered will help guide changes that need to be made to learner's communication system
 - increasing communication demands in specific settings
 - increasing vocabulary
 - increasing pages or levels on a system
 - increasing communication partners
 - increasing communication functions







Augmentative & Alternative Communication For more information, please visit: https://afirm.fpg.unc.edu/

---Troubleshooting Guide---

AAC



Learner's Name:	Date/Time:
Observer(s):	
Target Goal/Behavior/Skill (short):	
Directions: Use this guide to address issues	with the learner using AAC.

Learner is only communicating when prompted

- ·Use time delay to reduce prompt reliance.
- Interpret the learner's nonverbal communication and use modeling to demonstrate use of the
 device. For example, teacher says, "I see you reaching. You want that. Here's how you can tell me."
 This method teaches the learner the power of their communication.
- Model symbolic representations throughout the school day to increase receptive understanding.
 For example, the teacher may model bead patterns during math and say which beads are the same/different as the one before while pointing to the words on the learner's device to make this abstract concept symbolically represented.

Learner is only communicating in one context

- Think of what is so motivating in that context and see if it can transfer to another setting.
- Increase use of reinforcement for communicating in other settings.
- Check in with teachers in other contexts to make sure they are using and reinforcing AAC.

Learner is only communicating with adults

Train peers to prompt and reinforce the student for communicating.

Learner is refusing to use their device

- Reduce the number of word choices displayed. Simplify the demands placed on the student.
- Use motivating reinforcers.
- •Monitor other reasons why the student may resist the device think about sensory components like how heavy it is, what sounds it makes, etc.

Communication device is not working

- Make sure the device is charged and all software is updated.
- ·Power down the device for a few minutes and try again.
- Call the tech support specialist for the device or the local device representative.

Learner is using the device for purposes other than communication

·Use reinforcement or other EBPs to promote appropriate use of the device for communicating.







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Troubleshoot Issues If Needed

Determine next steps based on learner progress



EVIDENCE
Based Practices
—Autism—

Implementation Fidelity is Critical

What does this mean?

"Implementing an intervention in the same manner in which it was done in the evidence based research"







Implementation Fidelity is Critical!

How implementation fidelity achieved:

- TAKE TO THE PARTY OF THE PARTY
- 1. Use Implementation Checklists for the EBP to capture fidelity of implementation
- Refer to NCAEP EBP Fact Sheets
- 3. Use AFIRM self-learning modules on EBPs
- 4. Attend training on the EBPs
- 5. Access coaching on the EBP until fidelity is attained







Resources

PECS: https://pecsusa.com/

AFIRM:

https://afirm.fpg.unc.edu/

CAPTAIN:

https://www.captain.ca.gov/

ASHA:

https://www.asha.org/public/speech/disorders/AAC



















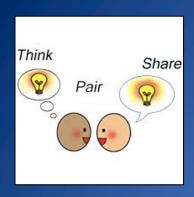
www.captain.ca.gov captain@marinschools.org

Questions









My Takeaways

- 1. What are 4 things you remember from today's training?
- 1. What are 2 things you see yourself doing?
- 1. What is the 1 thing you can implement tomorrow?





After the Training...

Please complete the **Post Training Survey** that will be sent to your email









Aided

