Evidence Based Practice Training:

Technology-aided Instruction and Intervention (TAII)



Adapted from Sam, A., & AFIRM Team. (2015). Technology-Aided Intervention and Instruction. Chapel Hill, NC: National Professional Development Center on Autism Spectrum Disorder, FPG Child Development Center, University of North Carolina. Retrieved from <u>https://afirm.fpg.unc.edu/technology-aided-instruction-and-intervention</u>





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.















TRAINING/WORKSHOP





Before We Begin...

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





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 Autism."

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

California Autism Professional Training and Information Network

Evidence-Based		aden -acad	nic/ lemic	Ad Se	lapti elf-he	ve/ elp	In	allen iterfe behav	ging/ ring vior	C	ognit	ive		ommu catio			Joint			Menta healt		,	Moto	or		Play			Schoo		dete	Self- ermina	ation		Socia	I	Vo	catior	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																																							
AAC																																							
BMI																																							
CBIS																																							
DR																																							
DI																																							
DTT																																							
EXM																																							
EXT																																							
FBA																																							
FCT																																							
MD										1																													
MMI																																							
NI																																							
PII																																							
PBII																																							
PP																																							
R																																							
RIR																																							
SM																																							
SI																																							
SN																																							
SST																																							
ТА																																							
TAII																																							
TD																																							=
VM																																							
VS																																							

AVAILABLE ON CAPTAIN WEBSITE **www.captain.ca.gov**



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

	Selecting a	an EBP Checklist	AFIRM	
	Observer(s): Target Goal/Behavior/Skill (sho	Date/Time:		
IDENTIFY	TARGET GOAL/BEHAVIC	DR/SKILL:		St
				H
SHEET):		E SELECTING AN EBP DATA CO	LLECTION	T(Ki
Date/Time	Frequency/Duration		Total	
				G
				0
				Ci
DEFINE A	N OBSERVABLE AND ME	ASURABLE IEP GOAL:		Те

AFIRM Autism Focused Intervention Resources & Modules	Selecting an EBP Checklist For more information, please visit: https://afirm.fpg.unc.edu/
CHECK ANNUAL GOAL FOR:	
1. Context (When/Antecedent)	🗆 Yes 🔹 No
 Target goal/behavior/skill (What/Behavior perform) 	
Mastery (How/Criterion for learner prog	ress/mastery 🗌 Yes 🗌 No
IDENTIFY CHARACTERISTICS, CLUES, A	ND RESOURCES:
Child and Family Characteristics	
Student strengths:	Student challenges:
Has worked before (home/school):	Has not worked before (home/school):
Teacher/Team Characteristics	
Knowledge level:	Successfully used EBPs:
Clues found in the IEP Goal	
Goal domain:	Potential EBPs (Refer to the Domain Matrix):
Other Resources	
Current student supports:	Available equipment:
Team members:	Additional learning experiences:
	and breighner Cener Selecting an EBP or AFIRM Team, 2020-R Page 2 of 3

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AFIRM Resources & Modules	,	Selecting an EBP Checklist for more information, please visit: https://afirm.fpg.unc.adui
SELECT AN EBP:		
SELECTED EBP:	FT ADDITIONALS EBP:	S TO BE USED WITH THE
Reinforcement (R+)	Prompting (PP)	Modeling (MD)
Task Analysis (TA)	Time Delay (TD)	Visual Supports (VS)
Functional Behavior Assessment (FBA)	□	0

Selecting an EBP Checklist

Autism Focused Intervention

ADDITIONAL NOTES	:		





High Quality Training: Autism Focused Intervention Resources and Modules (AFIRM) Designed to help you learn the step-by-step process of planning for, using, and monitoring EBPs with learners with Autism from birth to 22 years of age



Autism Focused Intervention Resources & Modules

My Account | Logout

You are logged in. Need help? Visit the FAQs section

AFIRM Modules

Timely Toolkits

Earn CE Credits

Selecting EBPs Resources

TAII

AAA

Technology-aided Instruction and Intervention

Technology-aided Instruction and Intervention (TAII)

Technology-aided instruction and intervention refers to instruction or intervention in which technology is the central feature supporting the acquisition of a goal for the learner.







Core Components: Learning Objectives

- Define evidence-based practices
- Define Technology-aided Instruction and Intervention
- Identify different types of TAII and goals that can be addressed
- Describe exploration and initial implementation of TAII
- Policy considerations before implementation
- Learn how to use the EBP Implementation Brief





Evidence Based for TAII Across Ages and Domains

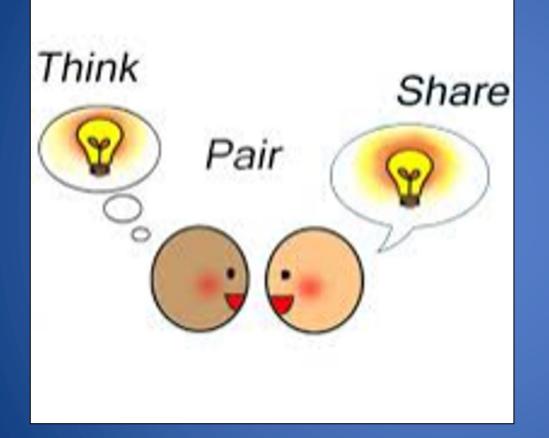
Name of EBP		Technology	-Aided Instru	iction and Inte	rvention (TA	II)	
Definition of E	BP	feature of an int evidence base is support the lear more general fo a mobile device, this evidence ba applications for the technology is supporting its u • Manualized I software • Note: Augme	ervention. Given s more focused to ning or performa rm of technology video modeling, ise. TAII includes devices, and virtt tself (as noted) a se in appropriate interventions Men	eting Criteria: Mind native communicat	inclusion of techr that is specificall r skill for a learner ative EBP (e.g., dis s part of self-man as robots, comput ommon features c occedures for learn Reading software	nology in interven y designed or em Interventions th pplaying a visual s agement) are not ter or web-based if these interventi ing to use the tec FaceSay™ (Syml	tions, this ployed to at use a support on cincluded in software, ions are hnology or bionica, LLC)
				Age Ra	inges		
Outcome Area	5	0-2 Toddlers	3-5 Preschoolers	6-11 Elementary School	12-14 Middle School	15-18 High School	19-22 Young Adults
	Communication	✓	✓	V	V	✓	V
	Social		1	1	1	1	1
کہ(<u>⇒</u>)	Joint attention		1	1	1	1	1
	Play		1	1			
	Cognitive	1	1	1	1	1	
	School readiness		1	1	1	1	
	Academic/ Pre-academic		1	1	1	1	1
	Adaptive/ self-help	1	1	1			1
ور ام الم	Challenging/ Interfering behavior		1	1	1		
<u>ي.</u>	Vocational						
	Motor	1	1	1			
(Anis)	Mental health		1	1	1		
	Self- determination						







Think - Pair - Share



Share/discuss the benefits of using EBPs.

What information did you gain from reviewing the TAII intervention fact sheet.









Goals Addressed by TAII Goals to increase:

- Accuracy of Spelling
- Adaptive/ Life Skills
- Communication (Sgd)
- Emotional Regulation
- Motivation
- Vocabulary Acquisition
- Engagement
- Face Recognition

- Independence
- Transitioning
- Knowledge Acquisition
- Organization skills
- Social Skills
- Task Completion
- Self-injurious behavior





How can TAII support independence?

Allows learners with Autism to:

- work at their own pace,
- work at their own level of understanding,
- repeat lessons until mastery is achieved,
- reduce social demands, and
- provide a communication system.



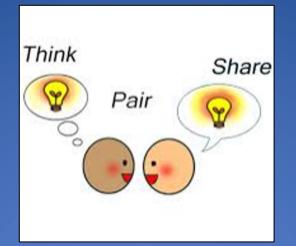




Allowing learners to use a computer and headphones to complete assignments can help keep them on task by blocking out the competing sounds and distractions in the classroom.









Which goals can be addressed with TAII?

Check all that apply.

- Increase the number of vocabulary words a learner masters
- Increase independence while transitioning to a new task
- Improve social skills
- Increase communication





Who can implement TAII?

Teachers, special educators, therapists, paraprofessionals and early interventionist in educational and community-based environments.



Parents/ family members can also use TAII in the home.





What is Technology-aided Instruction and Intervention (TAII)

- TAll are those in which technology is the central feature of an intervention.
- Focused to include technology that is specifically designed or employed to support the learning or performance of a behavior or skill for a learner.
- Includes technologies such as robots, computer or web-based software, applications for devices, and virtual networks. The common features of these interventions are the technology itself (as noted) and instructional procedures for learning to use the technology or supporting its use in appropriate contexts.





What is TAI? (Continued)



- Interventions that use a more general form of technology to deliver an alternative EBP (e.g., displaying a visual support on a mobile device, video modeling, alarm on a phone as part of self-management) are not included in this evidence base.
- Augmentative and alternative communication (AAC) that incorporates technology is part of the evidence base for AAC and not TAII.
- Manualized Interventions Meeting Criteria: MindReading software, FaceSay[™] (Symbionica, LLC) software are part of TAII





The TAII MIMCs Manualized Intervention Meeting Criteria as an EBP (MIMC)



- 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
- Two programs that are grouped within TAII EBP as MIMCs are:
 - Mindreading (Golan & Baron-Cohen, 2006)
 FaceSay® (Hopkins et al., 2011)





To Learn More About These MIMCs:

Note: These two TAII MIMCs do not necessarily have a "manual" but rather have software documentation and sufficient evidence

1. FaceSay® (Hopkins et al., 2011) Website: .<u>http://www.facesay.com</u>

1. Mindreading (Golan & Baron-Cohen, 2006) Article: https://drive.google.com/file/d/1XHP9gZ1CUinPryIAIY1VS00-W1DC3abi/view?usp=sharing





What is technology?

"Any electronic item, equipment, application, or virtual network that is used intentionally to increase/maintain, and/or improve daily living, work/ productivity, and recreation/leisure capabilities of children with Autism"

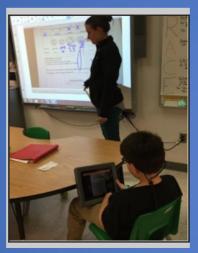






Examples









Speech Generated Device

Interactive Whiteboard

Mobile Device Computer Assisted Instruction







Speech Generated Device- Portable web-based vocabulary matching game to increase vocabulary acquisition.

Vibrating pager that goes off at the end of a work session to remind the learner to transition to the next work task.

Animated video series such as The Transporters to improve emotion recognition and contextual understanding of emotions.

Speech-generating device to communicate his/her wants and needs.

Note: Speech Generated Devices move to Augmentative and Alternative

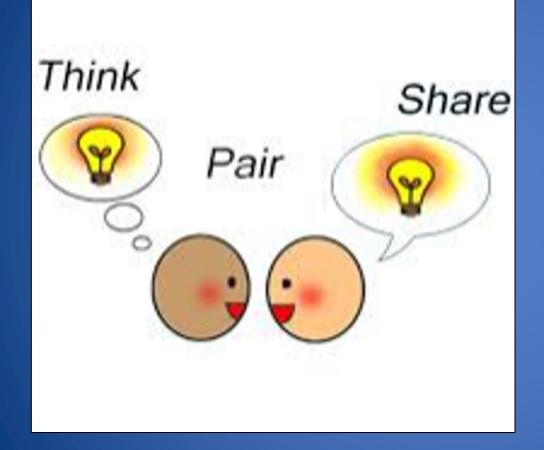






Think - Pair - Share

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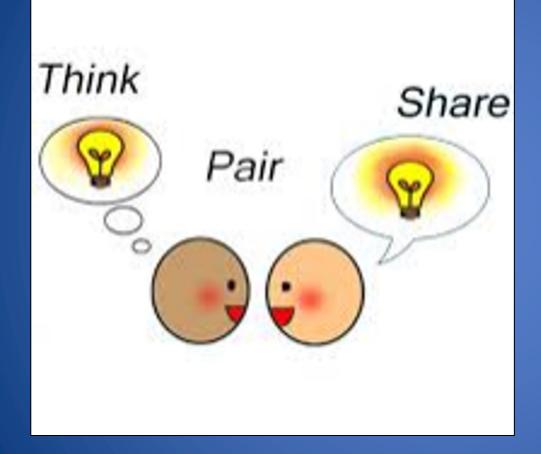
Discuss the Technology-aided instruction you use in your daily life and how/why they help.





Think - Pair - Share

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Discuss a student who uses TAII in your classroom or who is on your caseload and how/why it helps.







Technology-aided Instruction & Intervention (TAII) ---Professional's Guide---

STEPS FOR IMPLEMENTING

1. Plan

- Conduct technology assessment for learner
- Discuss technology preferences with families and learners
- Identify available technology resources
- Review policies/rules concerning the use of technology
- Prepare needed materials
- Inform and train appropriate team members to support learner
- Schedule times to use selected TAII

2. Use

- Teach learner how to use selected TAII
- Review rules with learner of appropriate use
- Provide prompting and reinforcement if needed for using selected TAII
- Ensure the technology is used consistently and across settings

3. Monitor

- · Collect data on targeted skills and use of TAII
- Determine next steps based on learner progress

Technologyaided Instruction & Intervention

This tip sheet was designed as a supplemental resource to help provide basic information about the practice.

For more information, visit:

Artisen Focused Internetion Resources & Modules







- Identify a behavior
- Collect baseline data through direct observation
- Establish a goal or outcome that clearly states:
 When the behavior will occur
 What the target skill is
 What does it look like when it is achieved
 - What does it look like when it is achieved

Note: Refer to AFIRM: How to Select an EBP





Use TAII Implementation Checklist

Technology-aided Instruction & Intervention (TAII) ---Implementation Checklist---Observation 1 2 3 Before you Date start: Observer's Initials Step 1: Planning Have you... 1.1 Conduct technology assessment for learner Identified the behavior? 1.2 Discuss technology preferences with families and learners Collected 1.3 Identify available technology resources baseline data through direct 1.4 Review policies/rules concerning the use of technology observation? 1.5 Prepare needed materials Established a goal or outcome 16 Inform and train appropriate team members to support learner that clearly states when the 17 Schedule times to use selected TAII behavior will occur, what the Step 2: Using target skill is, and how the 2.1 Teach learner how to use selected TAII team will know when the skill is 2.2 Review rules with learner of appropriate use mastered. 2.3 Provide prompting and reinforcement if needed for using selected TAII If the answer to any of these is 2.4 Ensure the technology is used consistently and across settings "no", refer to the "Selecting EBPs" Step 3: Monitoring section on the website. 3.1 Collect and analyze data on performance of target behavior 3.2 Determine next steps based on learner progress

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AFIRM Action Focused Intervention Resources and Medules



SELPA Content Lead EVIDENCE Based Practices —Autism— CMARIN

TAll Implementation Checklist STEP 1: Planning

Observation	1	2	3
Date			
Observer's Initials			
Step 1: Planning			
1.1 Conduct technology assessment for learner			
1.2 Discuss technology preferences with families and learners			
1.3 Identify available technology resources			
1.4 Review policies/rules concerning the use of technology			
1.5 Prepare needed materials			
16 Inform and train appropriate team members to support learner			
17 Schedule times to use selected TAII			





Planning 1.1 Conduct Technology Assessment for Learner How? By using the TAll Planning Worksheet

				Technology-aided Instruction & Intervention
	AFIRM	Learner's Name: _ Observer(s):		ing Worksheet
	sm Focused Intervention ources & Modules	Target Behavior: _		
What ir	nstructional domain doe Social Joint Attention School-readines Motor Vocational	s 0	kill/behavior add Communicatio Behavior Cognitive Adaptive Academic	
	answer the following qu Does the learner have t			
2.	Does the learner have t independently?		use a tactile su	rface such as a desktop keyboard
3.	Has the learner ever us			-
4.		ed any technology tool 1 NO e(s):		
5.	Will the learner be using	g the technology tool/d 1 NO	evice in multiple	e settings?
6.	Will additional training t	be needed for the learn	ner?	
	<u>Note:</u> If you respond 'no school or district's assis			ions, consider consulting with the bational therapist.





Planning 1.2 Discuss Technology Preferences with the Learner and Family Members

As part of your information gathering to help with planning, speak with the learner directly and/or with the learner's family to find out what types of technology the learner uses at home, technology preferences, and learner's behavior using technology at home.







Planning 1.3 Identify Available Technology Resources

- Make a list of the tools available in the classroom. For example, do you have a computer, laptop, or tablet in the classroom?
- Think about what tools may be available within the school building.
 For example, does the media center have tablets or laptops they loan out to classrooms?
- After exploring school resources, investigate resources available within the district. Does your district have an assistive technology person/center?
- Consider AT on the student's IEP to access needed technology to access the curriculum and derive educational benefit.





Planning 1.3 Identify Available Technology Resources

How? Use the TAII Planning Form



Identify available technology resources:

Location	Available Options	Notes
Classroom	Desktop Laptop Tablet Whiteboard Other:	
School	Laptop Tablet Other:	
District	Laptop Tablet Other:	
Home/Personal	Desktop Laptop Tablet Mobile device Other:	

What If there are no technologies available?

Questions	Available	Notes
Are there funds available to purchase technology?	Ves No	
Is there a state or local technology lending library?	Ves No	



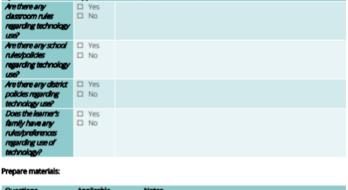


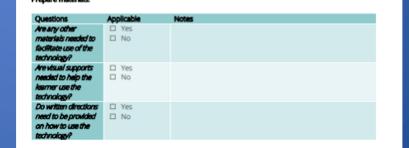
Planning 1.4 Review Applicable Policies/Rules Regarding the Use of Technology

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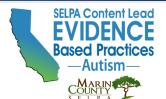
How? Use the TAII Planning Form





Continue ->





Planning 1.5 Prepare Needed Materials

In addition to the technology tool you have selected, you may want to consider some additional materials to help support the learner's use of the selected technology.

Considerations for preparing materials:

- Are any other materials needed to facilitate use of the technology?
- Are visual supports needed to help the learner use the technology?
- Do written directions need to be provided on how to use the technology?

For example:

- if using a tablet, a special bumper case may be needed to help protect it from damage if it is dropped
- screen protectors can help protect screens from damage
- tracking tools can be used to help locate a missing device
- visual supports might be helpful to remind the learner the basic steps to access the specific functions needed to use the TAII



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If the learner needs additional instructions to use technology, please visit the Task Analysis module, the Visual Supports module, and/or the Modeling module.



Planning

1.6 Identify, inform and train appropriate team members to support learner; train learner

How?

Use the TAII Planning Form

Team Members	Notes
Learner	
Family Member(s):	
Special education	
General education	
□ Specials (e.g., PE, music, library, computer, etc.)	
Paraprofessionals/Teacher Assistants	
Speech therapist	
Occupational therapist	
Physical therapist	
Lunchroom workers	
Other(s):	
	SELPA Content L



Planning 1.7 Schedule Times to Use TAII

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Identify times to use TAII:

	Daily Schedule	Monday	Tuesday	Wednesday	Thursday	Friday
Class:						
Class:						
Class:						
Class:						
Class:						
Class:						
Class:						
Class:						
Lunch	١					
Other	:					
Other	:					
Other	:					



How?

Use the TAII

Planning Form



TAII Implementation Checklist Step 2: Using

Step 2: Using				
2.1 Teach learner how to use selected TAII				
2.2 Review rules with learner of appropriate	use			
2.3 Provide prompting and reinforcement if selected TAII	needed for using			
2.4 Ensure the technology is used consiste	ently and across settings			





2.1 Teach Learner How to Use Selected TAII

- It is important to teach learners how to use the selected technology tool for the identified goal.
- Some learners may start using TAII independently without much practice, other learners may struggle with how to use TAII for the identified goal.
- EBPs that can support learners in using technology include:
 - Task Analysis
 - Visual Supports
 - Modeling







Example: Task Analysis

EBP	When to use	Example
Task Analysis	Increase learners' ability to access a specific computer program or app on a mobile device	 HOW TO MAKE A VIDEO 1. Touch 2. Take cover off the camera lens on the back of the iTouch 3. Slide the from "camera" to "video" 4. Hold the iTouch up to the person, place or thing you are taking a video of 5. When you are ready touch 6. Touch when you are done taking the video 7. Touch or or on the home screen to see the video you took





Example: Visual Supports

EBP	When to use	ple	
Visual Supports	Increase learners' understanding of the technology tool being used for instruction or intervention	<image/>	Image: Distribution Distribution Image: Distribution Image: Distribution





Example: Modeling



Key Points

- Focus on the learner with ASD in the green shirt
- Notice how the speech language pathologist models using the speechgenerating device
- Video Credit: The TESELA Project

https://afirm.fpg.unc.edu/resources/use-taii-teach-learner-use-technology





2.2 Review Rules With Learner of Appropriate Use

- Now is the time to review the classroom, school, and/or district technology policies you identified during the planning steps with the learner.
 - For example, if the technology tool you are providing has open access to the internet, you will need to review rules about what kinds of websites learners are permitted to visit.
- Make sure other staff and/or substitute teachers are informed that the learner has permission to use the technology, at what times, and for what purpose. If needed, provide demonstrations of its use to other staff.





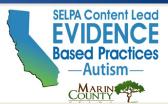
2.3 Provide Prompting and Reinforcement if Needed for Using Selected TAII

 In many cases, using a technology tool can be motivating for learners with Autism so prompting and reinforcement may not be needed.

 However, using technology devices with multiple functions (such as the ability to surf the web, access games and videos) may create a challenge in keeping some learners focused on the particular skill or task.

• Using prompting and reinforcement initially can be helpful (See AFIRM for more info on these EBPS)





2.3 Provide Prompting and Reinforcement if Needed for Using Selected TAII (Continued)

- When teaching a learner how to use a speech-generating device to make a request, be sure to provide them with a reinforcer every time the speech-generating device is used to make a request.
 - This reinforcement increases the likelihood the student will continue to use the device to express their wants and needs.
- If you do decide to use reinforcement to motivate use of the TAII, be sure to have a plan for thinning that reinforcement over time to increase independence.
 - For example, you can move from using a continuous schedule of reinforcement to an intermittent schedule of reinforcement.





2.4 Ensure the Technology is Used Consistently and Across Settings

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 Observe or get feedback on use in various settings or get (e.g, classrooms, recess, the cafeteria, and the home setting if applicable.)

 Use the TAII Anecdotal Data Collection form to collect data from others



Anecdotal Notes:

Date	Time	Notes
	Before	
	During	
	□ After	
	Before	
	During	
	After	
	Before	
	During	
	After	
	Before	
	During	
	□ After	
	Before	
	During	
	□ After	
	Before	
	During	
	□ After	
	Before	
	During	
	□ After	
	Before	
	During	
	After	





2.4 Ensure the Technology is Used Consistently and Across Settings (continued)

• Review data to see if adjustments should be made:

- For example, if a tablet is being used as a speechgenerating device in the main classroom but not in art class, you may need to spend time with the art teacher and demonstrate ways to incorporate its use in that classroom.
- You could also video the learner using the device in different settings or model using it with the learner in the art classroom, to help the art teacher feel more comfortable with incorporating its use into that particular setting.







TAll Implementation Checklist Step 3: Monitoring

Step 3: Monitoring

- 3.1 Collect and analyze data on performance of target behavior
- 3.2 Determine next steps based on learner progress

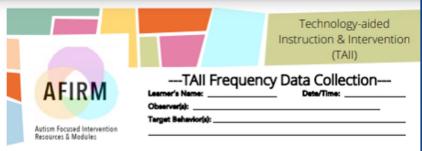




Monitoring 3.1 Collect and Analyze Data on Performance of Target Behavior

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- Collect data with the same data collection forms used to establish your baseline before you began using TAII.
 - Using the same data collection forms allows team members to track a learner's use of the target skill/behavior before, during, and after TAII is implemented.
- Use TAIl Frequency Data Collection form to collect data on the number of times a behavior occurs.



Frequency Data:

Use frequency recording to collect data on every instance of the target behavior.

Date	Tally	Total	Time
			Before During After
			Before During After
			Before During After
			Before During After
			Before During After





Monitoring 3.1 Collect and Analyze Data on Performance of Target Behavior (continued)

- The **TAII Anecdotal Notes** form is another tool that can be used to assist multiple users in collecting information about the learner's target behavior.
- This form could be used in addition to other types of data collection forms to provide more information
- Consider using an anecdotal data collection form to collect data from others regarding use in different settings.



Date	Time	Notes
	Before	
	During	
	After	
	Before	
	During	
	After	
	Before	
	During	
	After	
	Before	
	During	
	After	
	Before	
	During	
	After	
	Before	
	During	
	After	
	Before	
	During	
	After	
	Before	
	During	
	After	





Monitoring

3.2 Determine Next Steps Based on Learner Progress

- Work with team members to determine if sufficient progress is being made based upon the data collected.
- If the learner with Autism is not using TAII independently, continue to use additional practices to support use of TAII, but fade those supports gradually.
- If the learner is showing progress and using TAII independently, then continue to use TAII and put a plan in place to fade the technology support if appropriate.
- Review the collected data with team members to determine if any adjustments are needed.







Monitoring 3.2 Determine Next Steps Based on Learner Progress (continued)

What if the learner with ASD is not showing progress with TAII?

If the learner with ASD is not showing progress with technology-aided instruction and intervention, ask yourself the following questions:

- Is the target skill or behavior well defined?
- Is the skill or behavior measurable and observable?
- Is the skill or behavior too difficult for the learner?
- Was TAII used with fidelity (see Implementation Checklist)?
- Is the student motivated by technology use?
- Is the selected technology tool appropriate for the selected goal?
- Is the selected technology tool too difficult for the learner to use?
- Are all team members using/supporting TAII in a consistent manner?

If these issues have been addressed and the learner with Autism continues to not show progress, consider selecting a different EBP to use with the learner with Autism.









Mr. Rashid was using an event data collection form to track Sonia's use of her iPad to remind her to complete her homework assignments. He sent home the sheet and asked her mother to check off when Sonia completed her homework after being reminded by the iPad and without any prompting from her mother. There were three days this past week with no check marks on the event sampling form. Therefore, Mr. Rashid decided to provide Sonia's mother with an anecdotal form to use in addition to the event sampling data collection sheet and asked her to note down what was happening when Sonia ignored the reminder and did not complete her homework.

Did Mr. Rashid do the right thing or should he try another EBP since the event sampling data showed the TAII was not working?

Yes

No









Practice with Feedback

<u>-ttps://afirm.fpg.unc.edu/resources/taii-</u> planning-worksheet-pdf

		Technology-aided Instruction & Intervention
A	Observer(s):	Planning Worksheet Date/Time:
	n Focused Intervention rces & Modules	
1. D 2. D	ooes the learner have the fine motor ab Ves No Noes the learner have the fine motor ab helpendently?	Behavior Cognitive Adaptive Academic Inne what level of supports may be needed: lity to use a touchscreen independently? lity to use a tactile surface such as a desktop keyboard
3. ⊢	Yes No As the learner ever used any technolog Yes No If yes, list tool/device(s):	y tool/device in the school setting?
4. ⊢	las the learner ever used any technolog Yes No If yes, list tool/device(s):	y tool/device in the home setting?
5. V	Vill the learner be using the technology	ool/device in multiple settings?

<u>Note:</u> If you respond 'no' to one or more of the first four questions, consider consulting with the school or district's assistive technology specialist and/or occupational therapist.



Technology-aided Instruction & Intervention

Identify available technology resources:

What if there are no technologies available?

Questions	Available	Notes
Are there funds	Yes	
available to	🗆 No	
purchase		
technology?		
Is there a state or	Yes	
local technology lending library?	□ No	



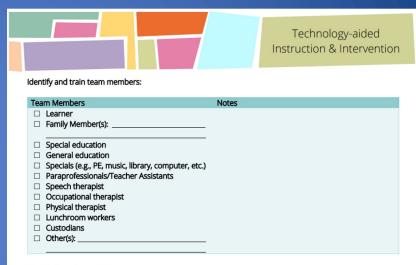




Practice with Feedback

https://afirm.fpg.unc.edu/resources/taii-planningworksheet-pdf

			Technology-aided Instruction & Interventio
lentify policies/rules r		-	
Questions Are there any classroom rules regarding technology use?	Applicable Yes No	Policies/Rules	
Are there any school rules/policies regarding technology use?	□ Yes □ No		
Are there any district policies regarding technology use?	□ Yes □ No		
Does the learner's family have any rules/preferences regarding use of technology?	Yes No		
repare materials:		Maria	
Questions Are any other	Applicable	Notes	
materials needed to facilitate use of the technology?	□ No		
Are visual supports needed to help the learner use the technology?	□ Yes □ No		
Do written directions need to be provided	□ Yes □ No		



Identify times to use TAII:

D	aily Schedule	Monday	Tuesday	Wednesday	Thursday	Friday
Class:						
Class:						
Class:						
Class:						
Class:						
Class:						
Class:						
Class:						
Lunch						
Other:						
Other:						



on how to use the technology?



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"



THE NATIONAL PROFESSIONAL DEVELOPMENT CENTER ON AUTISM SPECTRUM DISORDERS





Implementation Fidelity is Critical!

How implementation fidelity achieved:

- 1. Use Implementation Checklists for the EBP to capture fidelity of implementation
- 2. Refer to 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





TAII EBP Brief Packet

https://afirm.fpg.unc.edu/sites/afirm.fp g.unc.edu/files/imce/resources/TAII% 20EBP%20Brief%20Packet.pdf

Tools for TAII

Additional materials to help you with applying technology-aided instruction and intervention (TAII):

- Use the TAII Step-by-Step Practice Guide as an outline for how to plan for, use, and monitor TAII. Each step includes a brief description as a helpful reminder while learning the process.
- Use the TAII Implementation Checklist to determine if the practice is being implemented as intended.
- Use the TAII Tip Sheet for Professionals as a supplemental resource to help provide basic information about the practice to professionals working with the learner with ASD.
- Use the TAII Parent Guide to help parents or family members understand basic information about the practice being used with their child.
- 📆 Use the Additional Resources to learn more about the practice.
- The TAIL Brief Packet contains all of the resources and materials about the practice.

AFIRM Autism Focused Intervention Resources & Modules

This overview brief will support your use of the evidencebased practice: Technologyaided Instruction & Intervention.

For more information visit: www.afirm.fpg.unc.edu Technology-aided Instruction & Intervention (TAII)

Technology-aided Instruction & Intervention (TAII) ---EBP Brief Packet---

Components of the EBP Brief Packet...

This evidence-based practice overview on Technology-aided Instruction & Intervention includes the following components:

- Overview: A quick summary of salient features of the practice, including what it is, who it can be used with, what skills it has been used with, and settings for instruction.
- Evidence-base: The TAII Evidence-base details the NPDC criteria for inclusion as an evidence-based practice and the specific studies that meet the criteria for this practice.
- Step-by-Step Guide: Use the TAII Step-by-Step Practice Guide as an outline for how to plan for, use, and monitor TAII. Each step includes a brief description as a helpful reminder while learning the process.
- Implementation Checklist: Use the TAII Implementation Checklist to determine if the practice is being implemented as intended.
- Data Collection Sheets: Use the data collection sheets as a method to collect and analyze data to determine if progress is being made for a learner with ASD.
- Tip Sheet for Professionals: Use the TAII Tip Sheet for Professionals as a supplemental resource to help provide basic information about the practice to professionals working with the learner with ASD.
- Parent Guide: Use the TAII Parent Guide to help parents or family members understand basic information about the practice being used with their child.
- Additional Resources: Use the Additional Resources to learn more about the practice.
- CEC Standards: A list of CEC Standards that apply specifically to TAII.
- Module References: A list of numerical References utilized for the TAII module.

Suggested citation:

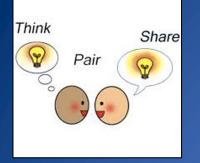
Hedges, S & AFIRM Team. (2018). Technology-aided Instruction & Intervention. Chapel Hill, NC: National Professional Development Center on Autism Spectrum Disorders, FPG Child Development Center, University of North Carolina. Retrieved from http://afirm.fpg.unc.edu/Technology-aided-instruction-and-intervention

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1. What are 4 things you remember from today's training?

www.captain.ca.gov

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





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



CAPTAIN

California Autism Professional Training and Information Network **SELPA** Content Lead

EVIDENCE

Based Practices

-Autism-