Iowa AEA's Systematic Process for Considering Assistive Technology Accommodations and AIM/AEM for Reading

Overview

The use of assistive technology (AT) for learner success and independence is of critical importance in our current era dominated by technology. When technology is carefully designed and thoughtfully applied, it has the potential to accelerate, amplify, and expand the impact of powerful principles of learning (Reimagining the Role of Technology in Education, 2017). Assistive technology can often decrease the impact reading disabilities can have in learners ability to successfully participate in the general education curriculum and settings. Assistive technology for reading provides access to grade-level instructional materials while instruction to develop independent reading skills may continue to be provided. A few examples of assistive technology for reading might include: text readers, changing of digital font, style, color, screen masking, resource tools, magnification, etc.

The purpose of this guidance is to provide teams with a data-based decision-making process for considering AT supports to increase learner access and engagement with curricular materials for learners struggling to meet grade-level standards based on universal screening, Iowa Statewide Assessments, and/or other literacy assessments (not including learners taking alternate assessments). This guidance aligns with the AEA Special Education Statewide Procedures and is not in addition to described procedures.

In developing a child's IEP, the IEP team must include consideration of five special factors. One of these factors includes:

...whether the child needs assistive technology devices and services, including accessible instructional materials [lowa Administrative Rules of Special Education, 281—41.324(1)(b)(5).

The following steps are outlined for teams to review using a Multi-Tiered System of Support (MTSS); these steps are implemented at the universal level of instruction with consideration of Iowa Specially Designed Instruction (SDI) Framework:

- Engagement Learner requests and uses needed assistive technology accommodations to engage in learning tasks (reading proficiency).
- Diagnose Gather information by using RIOT and SCIL. Keeping AT in mind

during this process...RIOT includes R-reviewing, I-interviewing or getting input, O-observing and T for testing or assessing to identify areas of concern; SCIL looks at the S- for Setting or environments, the C for Curriculum I for Instruction and L for Learner.

Through this diagnose process, teams will be able to answer

- What tasks are difficult for the learner?
- Why is a specific task difficult for the learner?
- What are the student's strengths, interests, and preferences, that the team wants
 to capitalize on and use as they consider supports needed for learner success.
 When diagnosing for specially designed instruction, the team will use these same
 steps as Assistive technology is considered as a support needed for the learner
 to successfully engage and interact with the curriculum.
- Design Consider assistive technology to address identified areas of concern;
 Through this process, we will be able to answer
 - What assistive technology features does the learner need to perform these tasks as independently as possible?
- Deliver Trial and implement the use of assistive technology; monitor progress and results; and through this process, we will be able to answer
 - o How will we know if the assistive technology was effective?

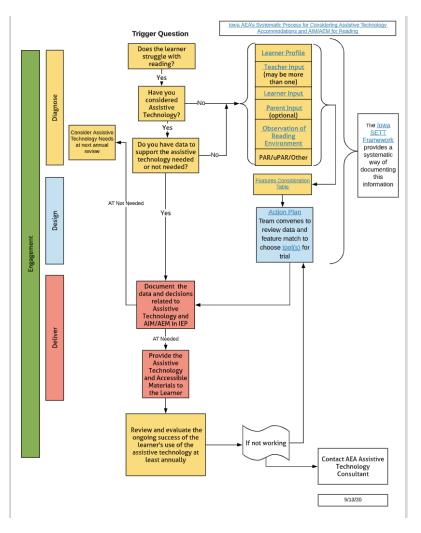
These steps follow the Student/Learner, Environment, Tasks, and Tools (Iowa SETT) Framework adapted with permission from Joy Zabala's SETT framework, however, terms used align with the <u>Iowa Administrative Rules of Special Education</u> (2010), MTSS and Iowa SDI Framework.

Consideration of Assistive Technology

The team follows AEA Procedures for collecting information to make decisions regarding consideration of the learner's assistive technology needs. The information provided below follows the AEA Procedures but have been expanded to facilitate ease of gathering and analyzing information to guide decisions.

This flowchart with links was created to provide a visual and usable tool for teams as they work through this systematic process.

Flowchart (https://rebrand.ly/iowareadingflowchart)



The process begins with the Trigger Question

Does the learner struggle with reading? If the answer is yes, begin the Engagement/Diagnose components.

Diagnose

Using the RIOT process (Review, Interview/Input, Observe, and Test/Assess) and SCIL (Setting, Curriculum, Instruction, Learner), the team gathers information about the learner's reading skills to identify the potential need for accommodations. The team is specifically gathering assistive technology-based information that can support the learner's independent access to print-based and digital instructional materials. Keep in mind, the information is not gathered one step at a time, the pieces of information are gathered in unison.

Review

Information is reviewed regarding the learner's growth and development. The team completes the Learner Profile to document important learner considerations.

- Speech and language development
- Hearing
- Vision
- Medical
- Physical (large and fine motor skills)
- Executive Functioning/Adaptive Behavior
- Behavior
- PAR/uPAR

Learner Profile

Interview/Input

Interview questions are used to gather further information for areas of concern from the teacher/s (general and/or special education teacher), learner and parent. These are examples of questions to be asked; not all questions need to be used.

- Teacher Input
- Learner Input
- Parent Input (optional)

AIM/AEM Screening Questions below have been previously used within training from various Area Education Agencies. These questions still remain, however, are embedded within the teacher input questionnaire.

5 guiding questions...

- 1. Would the learner still be below grade level if the current reading goal is achieved?
- 2. Does the learner understand grade-level reading material when it is read to him/her, at a significantly higher level than if it is read independently?
- 3. Does the learner have an accommodation on the IEP that requires an adult reader at specific times?
- 4. The learner may read near grade level. However, is the time required to access the text substantially longer than that of same-grade peers, to the extent that it may interfere with access to, and engagement with, core-related materials?
- 5. Does the learner have a significant visual or physical impairment that prevents him/her from independently accessing standard print-based instructional materials?

Observe

Checklists are used to gather further information about the classroom and the availability of technology, how technology is used by the teacher for instruction, and how the learner responds to use of technology.

Observation of Reading Environment Checklist

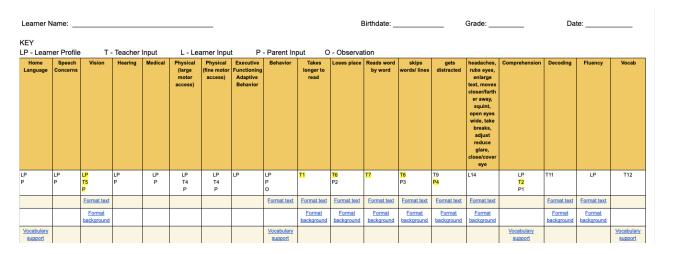
Test or Assess

"Test" We are in the test phase of RIOT, however there is no official test, so we are using the PAR/uPAR as a Screener to look at the learner's level of auditory comprehension with a text reader or human reader in comparison to their independent reading level. Use one of the following systematic processes:

- PAR (Protocol for Accommodations in Reading) free Don Johnston product
 - PAR in Action (a brief video of PAR administration)
- <u>uPAR</u> (Universal Protocol for Accommodations in Reading) paid Don Johnston product
- Other diagnostic reading assessments that look at learner reading skills across conditions as described above

Feature Matching

When considering assistive technology for a learner, we consider what features of that tool the learner needs. The answers from the input questions and other information gathered in the AT RIOT process are designed to lead to a list of AT features that matches what a learner may need. There are certain input questions that are tied to specific features, so if an answer is marked "yes" that feature may meet a learner's need. In the Features Consideration Table there is a key that shows which input questions are aligned to specific features. Yes responses should be marked on the Features Consideration Table (e.g. Tallying, highlighting, or circling the key codes). Learner Profile responses correspond with the column headings.



Oftentimes, features of tools support multiple areas of need and therefore, responses may yield an overlap in features to consider which may be an indication that a particular feature is a strong match. Options that align to the features for possible assistive technology are located at the bottom of the Features Consideration Table. The team may want to consider trialing tools or accommodations with multiple feature matches first.

Features Consideration Table

Frequently, a text reader is considered, therefore, a Text Reader Features Table has been included and lists commonly used text readers and the features of each.

Text Reader Features Table

Design

To ensure a successful trial of the selected assistive technology, the team completes an Action Plan. The Action Plan includes a description of the purpose and the assistive technology to be trialed (acquisition, training needed, management support, and learner use).

- Action Plan
- Note. There are no requirements for the duration of an intervention; it should be implemented for enough time to have sufficient monitoring data to make sound decisions (<u>Intervention System Guide</u>, p.27).

Planning for AIM/AEM

If it is determined that a learner needs materials in an accessible format, the following tools may be used to help plan the learner's access to materials. In order to provide AIM/AEM we must ensure that the learner is receiving access to his/her accessible materials at the same time as general education peers.

Team members may complete the Identification of Current Learning Materials for each instructional course to assess the types and formats of educational materials required for ALL learners.

The team will discuss how the teacher is delivering the content, the format that the content is delivered, what instructional technologies may be used, and if the content is in a digital format. If the team is unsure where to get accessible materials, the team can use the Acquisition of Materials chart below.

Identification of Current Learning Materials

If possible sources of AIM/AEM are needed, teams may use Acquisition of Materials. These are sorted by teacher's delivery of original educational materials such as textbooks used, lecture content, web based material, etc.

Within Acquisition of Materials, teams will find the accessibility features

that are built within the AEA online resources.

Acquisition of Materials

If the team is unable to find an AIM/AEM resource to support content on the Acquisition of Materials document, the team should move onto the Accessibility Tools document.

The Accessibility Tools document is a resource to plan, consider and problem-solve possible accessible technologies to support the creation or access to digital print and multimedia sources.

Accessibility Tools

An Encouraged Documentation Option

The Iowa SETT Framework allows the IEP team an opportunity to collect the information gathered within the Diagnose and Design Components into one document.

The questions embedded in the Iowa SETT Framework will guide teams in further discussion that will support decisions.

- lowa SETT
- Iowa SETT (Guiding questions embedded **below** table)
- lowa SETT (Guiding questions embedded within table)

Deliver

After a successful AT trial, the team will ensure the provision of AT through acquisition, documentation, and implementation. The Deliver component is ongoing and assistive technology should be reviewed at least annually when AT is considered as part of the IEP process.

In the IEP, features that the learner needs in a tool should be listed. A
description of what, when and where the learner uses AT is also included as well
as training for the learner and staff.

Engagement

The team reviews and evaluates the ongoing success of the learner's use of the assistive technology. If the learner's reading results do not improve, the team would review other considerations to trial, and repeat the process. Specially designed instruction is considered successful when the learner uses assistive technology to engage and improve in learning tasks (reading proficiency).

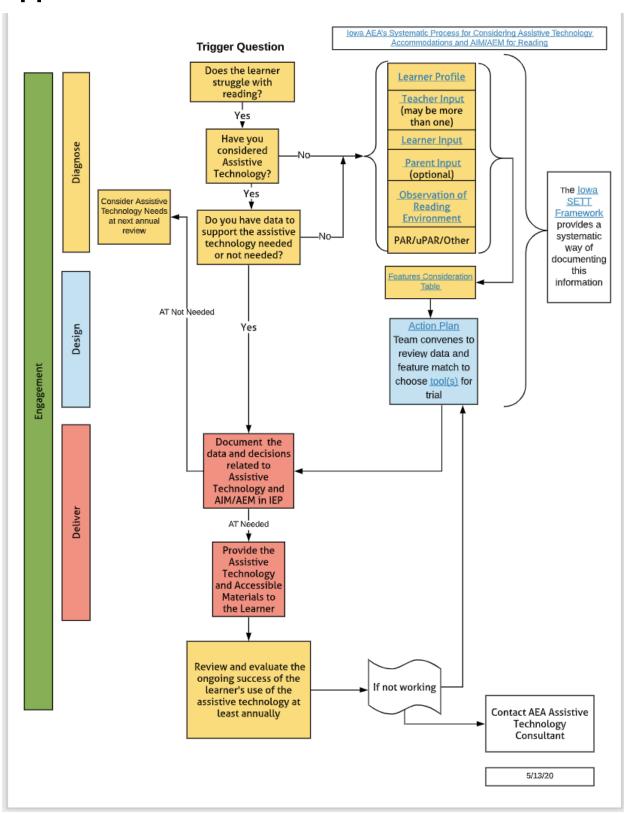
What to do if the selected AT is not effective:

- Gather input from learner and IEP team
- Consider fidelity checks through observations and data
- Review the Action Plan for other tools to trial
- Contact AEA Assistive Technology Consultant if necessary

Resources used to create this document include:

- <u>lowa's Specially Designed Instruction (SDI) Framework</u>
- <u>Determining Supports for Learning and Performance for all Students</u>
- Assistive Technology in Special Education: Resources to Support Literacy, Communication, and Learning 3rd Edition by Joan Green
- The New Assistive Tech: Make Learning Awesome for All! Christopher R. Bugaj
- Accessible Educational Materials Navigator (<u>AEM Navigator</u>)
- Student/Learner, Environments, Tasks, and Tools (<u>SETT Framework</u>) by Joy Zabala
- The Wisconsin Assistive Technology Initiative <u>WATI Assessing Students' Needs</u> for <u>Assistive Technology</u>
- Donna McNear, M.A., COMS
- Irlen Short Self-Test

Appendix Master Documents



May 2020

Learner Name:		Birthdate:		Grade:	Date:	Learner's primary language:
Does your learner have any concerns with the following		If yes, please area. (for ex	e state leame ample, vision	If yes, please state learner information regarding the area. (for example, vision: the learner is farsighted)	If yes, please state learner information regarding the area. (for example, vision: the learner is farsighted)	Learner Strengths
Speech	Yes or No					
Vision	Yes or No	If learner is bli	If learner is blind or has CVI contact TVI	contact TVI		
Hearing	Yes or No					Learner Preferences
Medical	Yes or No					
Large Motor	Yes or No					
Fine Motor	Yes or No					Learner Interests
Executive Functioning/Adaptive Behavior	Yes or No					
Behavior	Yes or No					
Current Independent reading level Fluency Data (rate & accuracy) and source Comprehension Data and source of data	level y) and source o	of data				
Results from the PAR, uPAR or other Diagnostic Reading Assessment? (Protocol for Accommodations in Reading)	or other Diagno commodations	stic Reading in Reading)	Does comprehension increase when s/he reads with digital/audio supports?	rehension ien s/he ligital/audio	What is the learner's pre reader, textreader, other) Use this space if needed results	What is the learner's preference for reading? (By self, adult reader, textreader, other) Use this space if needed for additional PAR/uPAR conditions or results
Grade Compreh Level Accuracy	ension	Likert	Yes	Yes or No		
Adult Read						
Text Reader						
Likert 1 - did NOT like it 2 - did not like it much 3 - liked it a little 4 - really like it	much 3 - liked it a litt	le 4 - really like it				

Teacher Input

Learner name: Birthdate: Date: Grade: 1. If the learner is reading near or at grade level, does it take a Yes or No substantially longer time and effort to read materials? Yes or No 2. Does the learner have increased comprehension of grade-level reading material when it is read to him/her versus when he/she reads it independently? Does the learner have an adult/peer reader for specific tasks (e.g. Yes or No testing, worksheets, chapter books, etc)? 4. Is the learner unable to physically access and manipulate print-based Yes or No materials (e.g. turn the page, hold the book, etc.)? 5. Does the learner have significant visual impairments that prevent Yes or No him/her from independently accessing standard print-based materials (worksheets, textbooks, computer screens, etc.)? 6. Does the learner lose his/her place while reading? Yes or No 7. Does the learner read word by word? Yes or No 8. Does the learner sometimes skip word/lines or repeat or reread lines? Yes or No 9. Does the learner get distracted while reading? Yes or No 10. Does the learner currently use technology to access print-based Yes or No materials? 11. Does the learner struggle with decoding? Yes or No 12. Does the learner struggle with understanding grade-level or key Yes or No vocabulary?

Learner Input

Learner Name: Birthdate: Grade: Date:

Have the learner rate the following	I haven't tried it	I don't like it	I like it a little	I really like it
1. How I feel when an adult reads to me				
2. How I feel when a partner reads to me				
3. How I feel when asked to read aloud in front of my teacher				
4. How I feel when I read with a partner				
5. How I feel when asked to read aloud in class				
6. How I feel when I read to myself silently				
7. How I feel when I read aloud to myself				
8. How I feel when I listen and read with a computer (computer voice)				
9. How do I feel when I listen and read audiobooks (human voice)				
10. How I feel when I read books on a device (Kindle, iPad, etc)				
11. How do you feel when you need to wait to have an adult read something to you				
12. How do you feel when you need to leave the room to have something read to you				

- 13. What do you do when you have difficulty reading
 - I take breaks
 - I use my finger or a guide to help me read
 - I reread the text for understanding
 - I have someone read the text to me
 - I read the text out loud to myself
 - I ask for help if I don't understand the meaning of a word
 - I read in a quiet space
 - I have the text in my home language
 - I highlight as I am reading
- 14. While I am reading or using a computer
 - I rub my eyes
 - I use enlarged text
 - I get headaches when I read
 - I move closer or further away from the text
 - I squint
 - I open my eyes wide
 - I take breaks
 - I make adjustments to reduce glare
 - · I close or cover one eye
 - I read word by word
- 15. Is there anything else you would like to tell me about reading?

April 2020

Parent Input

Child's Name: Date:
Child's primary language: Birthdate:
Grade:

Does your child have any concerns with the following		If yes, please state child information regarding the area. (for example, vision: child is far sighted; behavior: child has trouble focusing and completing tasks)	Learner Strengths
Speech	Yes or No		Learner Preferences
Vision	Yes or No		
Hearing	Yes or No		
Medical	Yes or No		
Large Motor	Yes or No		Learner Interests
Fine Motor	Yes or No		
Behavior	Yes or No		

Does it seem that your child understands better if you read to him/her?	Yes or No
2. Does your child lose his/her place while reading?	Yes or No
Does your child sometimes skip word/lines or repeat or reread lines?	Yes or No
Does your child get distracted while reading?	Yes or No
5. Does your child use technology to read books?	Yes or No
6. Does your child read at home? If "no" explain	Yes or No
7. How would you describe your child's attitude about reading?	
8. What types of books does your child read?	

Adapted instructional materials			
Other			
Instructional Materials at checking the correspondin		the presence or absence o	of EACH TYPE of technology by
	Present-Not Used	Present-Used	Not Present
Overhead Projector/Elmo			
Mobile Computer/Device Lab			
Smartboard			
Desktop/laptop			
One-to-one Device			
Bring your own Device			
DESCRIBE THE READING		D IN TACK	
WAYS THAT TYPICAL LE	ARNERS PARTICIPATE	D IN TASK	
WAYS THE TARGET LEA	RNER PARTICIPATED I	N TASK	
WAYS THE TARGET LEA			
WAYS THE TARGET LEA			

Observation of Environment

(Conduct observation while a reading activity is occurring)

	General li	nformation	
Learner Name:			
Birthdate:	Grade:		
School:			
Observer:			
Date of Observation:	Lengt	h of Observation	
	Environmenta	al Observation	
Describe the Environmen	nt Record short answers in	n the space provided	
Is this observation in the specific education classroom?	pecial education or general		
How many adults were in t	he room?		
How was the learner received class, small group, or indiv	•		
Describe the format of the	reading materials		
Describe the listening envi	ronment during this		
List and describe any spec	ial equipment available		
		ice or absence of EACH TYF und in the classroom as a wi	
	Present-Not Used	Present-Used	Not Present

Present-Not Used Present-Used Not Present

Positioning Equipment

Amplification

Magnifiers

Brailler/Braille materials

Digital Text readers

Switch

Not Present

Not

April 2020

Adapted instructional materials			
Other			
Instructional Materials a checking the correspondin		he presence or absence	of EACH TYPE of technology by
	Present-Not Used	Present-Used	Not Present
Overhead Projector/Elmo			
Mobile Computer/Device Lab			
Smartboard			
Desktop/laptop			
One-to-one Device			
Bring your own Device			
DESCRIBE THE READIN	G TASK(s)		
WAYS THAT TYPICAL LE	ARNERS PARTICIPATEI) IN TASK	
WAYS THE TARGET LEA	RNER PARTICIPATED IN	N TASK	
BARRIERS TO TARGET I	EARNER'S PARTICIPAT	TION	

April 2020

	Vocab	T12			Vocabulary support	Visual vocabulary support				
	Fluency	<u>4</u>	Format text	Format background						
	Decoding	E	Format text	Format background						
	Comprehension	P 2 F			<u>Vocabulary</u> <u>support</u>	Visual vocabulary support	Draw visual attention to text			
	Get headaches, rub eyes, end eyes, end eyes, elest, move closer or farther away, squint, open eyes wide, take breaks, adjust reduce glare, close/cover eye	L14	Format text	Format background			Draw visual attention to			Cover portions of page/screen
	gets distracted	T9 44	Format text	Format background			Draw visual attention to text			Cover portions of
	skips words/ lines	P3	Format text	Format background			Draw visual attention to text			Cover portions of page/screen
, G		4	Format text	Format background			Draw visual attention to			Cover portions of
O - Observation	Loses place Reads word by word	P2 P2	Format text	Format background			Draw visual attention to			Cover portions of page/screen
	s - t - t - t - t - t - t - t - t - t -	Ε	Format text	Format background			Draw visual attention to text			Cover portions of
P - Parent Input	Behavior	4 0	Format text		Vocabulary support		Draw visual attention to text			Cover portions of
	Physical Executive (fine motor Functioning access) Adaptive Behavior	4					Draw visual attention to text			Cover portions of
arner Input	Physical (fine motor access)	7 t d							Support to manipulate books	
L - Learner	Physical (large motor access)	라본교							Support to manipulate books	
Input	Medical	4 a								
T - Teacher Input	Hearing	<u>ዓ</u>				Visual vocabulary support				
	Vision	구도	Format text	Format background			Draw visual attention to	Enlarge		Cover portions of
ar Profile	Speech	<u>4</u> 4								
KEY LP - Learner Profile	Home Speech	4 4			Vocabulary support	Visual vocabulary support	Draw visual attention to text			Cover portions of

		Have material read aloud	English language support		Sped Consultant or Literacy Consultant	
		Have material read <u>aloud</u>			Sped Consultant or Literacy Consultant	indow)
		<u>Have</u> <u>material</u> <u>read aloud</u>			Sped Consultant or Literacy Consultant	Page //cut-out wi e ads o w/highlig
		Have material read aloud	English language support		Sped Consultant or Literacy Consultant	Remove Distractions from the Page Reading guide (card w/cut-out window) Extensions that remove ads textreader options Raise Angle of Material Slant board 3-ring binder Slant desk Have Material Read Aloud Audio Book Human recorded Audio Human recorded Audio Text Reader Text Reader Text Reader whighlighted text textreader options English Language Support Translation textreader option
	Raise angle of material	<u>Have</u> <u>material</u> <u>read aloud</u>			Sped Consultant or Literacy Consultant	Remove Distractions free Raiding guide (Extensions that Extender option texteader option to texteader option to texteader option to texteader option to texteader option texte
Remove distractions on page		Have material read aloud			Sped Consultant, Literacy Consultant, Psychologist	Rais Have
		Have material read aloud			Sped Consultant or Literacy Consultant	
		Have material read aloud			Sped Consultant or Literacy Consultant	(wop
Remove distractions on page		Have Material read aloud			Sped Sped Consultant or Consultant or Literacy Consultant Consultant	Picture Dictionary Picture Dictionary Picture dictionaries built-in to programs Picture Word Bank textreader options isual Attention to Text Highlighter/Highlighting tape Material highlighter/Highlighting tape Material highlighter/Highlighting tape Material highlighter as it is read aloud Underline/Bold/Highlight/Italics text textreader options Use Magnifiers Magnifiers Over options Portions of the Page/Screen Reading guide (card w/cut-cut window) Blank card or straight-edge (ruler) Screen Masking w/in programs textreader options
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Remove distractions on page		Have material read aloud				Visual Vocabular Picture di Picture di Picture Wi Visual Atte Attreade Draw Visual Atte Highlight Material I Underline Enlarge Material Enlarge Material Use Magn Extreade Cover Portions o Reading 9 Blank care Screen M
	Raise angle of material	Have material read aloud			Occupation al Therapy	5
	Raise angle of material	Have <u>material</u> read aloud			Physical Therapy	hange cold it cover
					School	vords vords verlay, c
					Audiologist	of options sually Imp ers/lines/v ind/text en, use o w, fluores olor
Remove distractions on page	Raise angle of material	Have material read aloud		Braille	Teacher for the Visually Impaired	*This is not an exhaustive list of options Braille - Contact Teacher of Visually Impaired Format Text • Change spacing of letters/lines/words • Change font style/color • Lextreader options • Colored overlay • Light contrast-background/text • Reduce glare - tilt screen, use overlay, change color, move away from window, fluorescent light cover • Change background color • Lextreader options • Dictionary • Dictionaries built-in to programs • Thesaurus • Personal Word List • Word Bank • Lextreader options
					Speech Language Pathologist	*This is not an exhaustive list of Braille - Contact Teacher of Vis Format Text • Change spacing of lette • Change fort style/color • textreader options Format Background • Colored overlay • High contrast-backgrou- • Reduce glare - tilt screamove away from windo • Change background oc • textreader options Vocabulary Support • Dictionary • Dictionary • Dictionary • Dictionary • Personal Word List • Word Bank • Word Bank
Remove distractions on page		Have material read aloud	English language support		English Learner Teacher	*This is not a Braille - Con Format Text • Chan • Chan • Lextre Format Back • Color • High • Redu move • Color • Lextre Vocabulary \$\forall \text{comparison}\$ • Dictition • Persy

			This is	not an exhaus	tive list of text	This is not an exhaustive list of text readers. Features of tools get updated frequently and may not always be current. See Websites for current information.	s of tools ge	t updated fre	equently and	may not alw	rays be currer	nt. See webs	ites for curr	ent informat	tion.		
	Built-In Acce	Built-In Accessibility Features - Links to the most curr	res - Links to t	he most curre	ent Operating	School/Home	Multi-	Multi-Platform including Web-Based	Iuding Web-B	Sased				Tablet Apps	Apps		
Features	Chromebook	iOS (iPad/iPhone)	Mac	PC (Microsoft)	Android (Tablet/Phone)	-check the features available below	Read & Write For Google "Free"	Read & Write for Google Chrome	Kurzweil	Snap & I Read Universal	Immersive S Reader	Speechify	Capti Voice (IOS)	Dolphin EasyReader (iOS, Android)	Voice Dream Reader (IOS, Android)	Seeing AI (IOS)	Text Fairy (Android)
Company Name							TextHelp	Негр	Cambium	Don Johnston	Microsoft		Charmtech Labs	Dolphin Computer Access	Voice	Microsoft	Renard
Overview Video			Voice Over					Overview	Overview	Overview		Overivew	Overview		Overview	Overview	Overview
Overview Sheet	Accessibility	Accessibility Accessibility Accessibility	Accessibility	Accessibility	Accessibility			Handout	Features	Handout			Video	Website	Video	Video	
Text to Speech (TTS)	Select-to-spe ak	Select to Speak	×		Select to Speak		×	×	×	×	×	×	×	×	×	×	×
Change TTS Voice	×	×	×		×		×	×	×	×	Female or Male	×	×	×	×	×	
Change TTS Speed	×	×	×		×		×	×	×	×	×	×	×	×	×	×	
High lights words while reading by word and sentence	×		×				×	×	×	×	×		×	×	×		
Single Word Translator							×	×	×	×	×	×	×		×		
Translator (verbatum)									×	×	×	×	×		×		
Read files from Google Drive							×	×	×	×		×	×	×	×		
Read Bookshare books								×	×	With screenshot reader		×	×	×	×		
Magnify Text	Fullscreen or Docked Magnifier	Zoom	×	Magnifier	Magnification				×								
Change Background and Text Color	Change to black background with White print or vice	Change to black background with white print and	×	Color Filters	Color Lens			few contrast choices on web	×				×	×	×		
Change Background and Text Color		Color Filter		High Contrast Themes	High Contrast Text						×						
Talking Dictionary								×	×	×					×		
Picture Dictionary								×	×	×	×						
Thesaurus									×								
Screen Masking								×		×	×						

								×				×		Free		Google Play
												×				ŏ
					×		×	×					most	iOS Free		Google Play
					×		×	×					most formats most formats	SOI		Google Play Google Play
					×		×					Prizmo, Claro Scan, or Capti	most formats	SOI		
				×	×							×				
				×	×	×						OfficeLens				
	×	×	×	×								screenshot		Don Johnston		
installed				×			×		×			×	Word, PDF, RTF, JPG, Kesi, DAISY, EPUB	Kurzweil	Kurzweil	
×	×	×		×								screenshot reader	ePub, PDF, docs, slides	Text Help		
				×										Free		
										TalkBack	Select to Speak					
										Narrator						
										Voice Over	Speak Screen					
Audio Maker (makes an audio file)	Remove distractions	Modify Text complexity	Text Leveler (Modifiy text complexity)	Read Web	Change Font Size	Change Font	Bookmark	Change line and word spacing	Able to change order material is read on page	Screen Reader	Screen Reader	OCR Built In (Converts documents into readable text)	Supported Formats	Pricing	Free Subscriptions during COVID-19	

				Timeline							April 2020
Grade:				Person Responsible							
Birthdate: Grade:	Features of AT to consider: Features Consideration Table •	ng for AEM Resources: Identification of Current Learning Materials Acquisition of Materials Accessibility Tools	to trial	Description of Assistive Technology	Features:	Name of Tool:	Platform (tablets, pc, etc):	Persons to be trained:	Training required:	How training will be provided □ Watch a video □ Adult modeling □ Peer modeling □ Hands-on practice	3
Learner Name:	Features of AT to	Planning for AEM Resources: Identification of Current Lea Acquisition of Materials Accessibility Tools	Possible AT Tools to trial		Technology & Trial			Training			

Student Use:	Try in Pabricated situations (structured practice) Authentic situations (classroom setting - low stakes task - daily assignment) Authentic situations (classroom setting - high stakes task - assessment) Tasks:	
	Opportunities to practice with the support Opportunities to practice independently Opportunities for staff observation	
Management/Supp ort	Support to be provided (e.g. set up, troubleshoot, recharge, program, etc.)	
Decision Making include date for follow-up when trials are completed	The purpose of the following assistive technology is: We will know if the AT tool is working if: Options if AT tool is not working: Conduct fidelity checks through observations and data collection Trial another AT tool ReSETT (revisit SETT if used) Contact Assistive Technology Consultant	
Final Acquisition after successful trial	Name of Tool:	
Procedural Checks	 □ Action Plan filed (and SETT if used) in student's confidential folder □ Assistive Technology documented on the IEP □ Accessible Instructional Materials/Accessible Educational Materials (AIM/AEM) appropriately documented 	

Planning for AIM/AEM Identification of Current Educational Materials

Note: Complete this pa	Note: Complete this page for each instructional course to assess the types and formats of educational materials currently available to ALL students.	types and formats of educational r	materials currently available to AL	L students.
Content Subject/Area	Delivery	Delivery Format	Educational Technology	Digital File Info
Complete this first page for each instructional course/instructor.	How will the teacher deliver the content to ALL students?	How will content be accessed by ALL students?	What other educational technology is used?	If the content is digital, expand on file details.
	Higniignt all that apply.	Highlight all that apply.	Hignlight all that apply.	Hignlight all that apply.
	 Textbook 	Print	 Web-based 	 Publisher
SUBJECT/Course Name:	Workbook	 Image 	Tools	 Teacher created
	 Books (Picture, Novel, Trade, etc) 	 Digital 	Apps	 Web-based
	 Lecture content 	• Video	Other	 Digital file
	o Prepared	Audio		o Slide
INSTRUCTOR:	Classroom work	 Object 		Presentation Dof
	o Worksheets	• Other		
	o Lab			o Word doc
	o Group work			Other
	 Classroom tests 			
	 Homework 			
	 Internet 			
	 Multimedia 			
	• Video			
	 Displayed 			
	o Electronic			
	o Print			
	Other			

If the materials identified are not in the accessible format required by the learner, determine how these materials and content will be made into the learner's needed accessible format and how the learner will engage with that required format Adapted with permission from the work of Donna McNear, M.A., COMS

Planning for AIM/AEM Acquisition of Materials

Embedded links are included throughout this document to suggest possible sources/repositories to create and/or provide accessible content... Use this resource to plan, consider and identify possible 'sources' for AEM sorted by TYPE of original educational material.

Textbook/Workbook Options for Acquiring Accessible Textbooks/Workbooks	Lecture Content: Teacher Prepared	Lecture Content: Real-Time Audio Audio only	Classroom Printed Materials: Worksheet Packets, or	Classroom Digitally Available Materials Worksheets, Packets, Assessments, Presentations, or Websites	Literature: Books, Magazines and/or Novels	Websites	Multimedia Video & Image Description
Bookshare Contact Publisher for accessible digital text/audio file or online content option District created accessible formats (scan, audio, etc.) Learning Ally (paid subscription) National Library Service for the Blind & Shysically Handicapped	Create the materials in a digital format initially Provide lecture content in accessible format to student	Create and provide audio recording Provide copies of digital teacher/ peer notes	Create accessible forms (s) using OCR Scanned Conversion Tool Open Educational Resources (OER Commons)	Ensure digital text is in an accessible format Open Educational Resources (OER Commons)	AEA Digital Resources AEA and Public Libraries audiobooks and ebooks Bookshare Digital Epic Audio Learning Ally (paid subscription) National Library Service for the Blind & Physically Handicapped Additional Websites (Digital or human audio)	Ensure websites are accessible for textreaders or have a built-in textreader Ability to change text complexity within the articles offered on their website Britannica School Newsela Tween Tribune Readworks Wikipedia Breaking News English	AEA Digital Resources Described & Captioned Media Program (USDOE) National Center for Accessible Media (NCAM)

*This list includes examples but is not meant to be all-inclusive

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AEA Digital Resources Contact an AEA

Contact an AEA library/media staff member for login information

Single sign-on and searchability to access multiple Perk 12 Statutions are contact your AEA librarian for access to student acco. Augustian accounts and organisms contact your AEA librarian for access to student acco. Augustian accounts accounted acco. Augustian accounts accounted acco. Augustian accounts accounts accounted acco. Augustian accounts accounted accounts accounted accounts accounted accounts accounted acco	Resource	Description		Assistive Features
With over 400 titles, this collection includes streaming video, still images and digital documents. • Prekt-3 Literature • 4th-8th Science • 7th-12th Health & Guidance • 7th-12th Health & Guidance storybooks with related nonfiction books. A collection of resources for K-12 including an encyclopedia, dictionary, atlas, articles and more. A resource for detailed information about countries and their citizens. Provides 60+ ebooks and video clips, supplying information relevant to science and social studies core topics. An eResource package offering content from magazines, newspapers, and reference materials. Resources are designed for age-appropriate access. Collection of e-Books and audiobooks. (Individual student accounts available for students) Books and short video clips about science topics.	AEA Scout (4th-12th)	Single sign-on and searchability to access multiple digital resources. Pleasuntse contact your AEA librarian for access to student acco.	• • • • •	Text to Speech Varying reading grade levels Citations Note-taking features Google Translation Closed Captioning
Online literacy resource pairing fictional video storybooks with related nonfiction books. A collection of resources for K-12 including an encyclopedia, dictionary, atlas, articles and more. A resource for detailed information about countries and their citizens. Provides 60+ ebooks and video clips, and their citizens. Provides 60+ ebooks and video clips, supplying information relevant to science and social studies core topics. An eResource package offering content from magazines, newspapers, and reference materials. Resources are designed for age-appropriate access. Collection of e-Books and audiobooks. (Individual student accounts available for students) EEIIx Books and short video clips about science topics.	AEA Digital Library (PreK-12)	With over 400 titles, this collection includes streaming video, still images and digital documents. • PreK-3 Literature • 4th-8th Science • 7th-12th Health & Guidance	•••••	Closed captioning (English/Spanish) Media Quality Options for Streaming Keywords (Vocabulary) Grade level standards connection Citations Downloading options.
A collection of resources for K-12 including an encyclopedia, dictionary, atlas, articles and more. Carams A resource for detailed information about countries and their citizens. Provides 60+ ebooks and video clips, supplying information relevant to science and social studies core topics. An eResource package offering content from magazines, newspapers, and reference materials. Resources are designed for age-appropriate access. Collection of e-Books and audiobooks. (Individual student accounts available for students) Shooks and short video clips about science topics. Collection of e-Books and sudiobooks. (Individual student accounts available for students) Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips about science topics. Collection of e-Books and short video clips and short video clips and s	BookElix (PreK-3)	Online literacy resource pairing fictional video storybooks with related nonfiction books.	• • • •	Read Aloud features (highlights words as they are read) Varying reading grade levels Some Spanish titles included Extension activities
A resource for detailed information about countries and their citizens. Provides 60+ ebooks and video clips, supplying information relevant to science and social studies core topics. An eResource package offering content from magazines, newspapers, and reference materials. Resources are designed for age-appropriate access. Collection of e-Books and audiobooks. (Individual student accounts available for students) Books and short video clips about science topics.	Britannica School (PreK-12)	A collection of resources for K-12 including an encyclopedia, dictionary, atlas, articles and more.	•••	Varying reading grade levels Linked-in Spanish translator Text-to-speech
Provides 60+ ebooks and video clips, supplying information relevant to science and social studies core topics. An eResource package offering content from magazines, newspapers, and reference materials. Resources are designed for age-appropriate access. Collection of e-Books and audiobooks. (Individual student accounts available for students) Books and short video clips about science topics.	CultureGrams (K-12)	A resource for detailed information about countries and their citizens.	••	Text-to-speech Video clips
An eResource package offering content from magazines, newspapers, and reference materials. Resources are designed for age-appropriate access. Collection of e-Books and audiobooks. (Individual student accounts available for students) Books and short video clips about science topics.	EreedomElix (4th-12th)	Provides 60+ ebooks and video clips, supplying information relevant to science and social studies core topics.	••••	Read Aloud features (highlights words as they are read) Extension activities Video clips Adjustable Text Size Table of Contents
Collection of e-Books and audiobooks. (Individual student accounts available for students) Books and short video clips about science topics.	GALE (PreK-12)	An eResource package offering content from magazines, newspapers, and reference materials. Resources are designed for age-appropriate access.	• • • •	Built-in translation feature Text-to-speech Varying reading levels Adjustable Text Size
Books and short video clips about science topics.	MackinVIA (PreK-12)	Collection of e-Books and audiobooks. (Individual student accounts available for students)	••	Varying reading grade levels Text-to-speech
	ScienceFlix (4th-12th)	Books and short video clips about science topics.	••	Varying reading levels Additional instructional resources are available.

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SIRS Researcher (7th-12th)	Exploration of the perspectives (pro vs. con) and essential questions under debate on over 300 social issues.	 Varying reading grade levels Text-to-speech Citations Translation features
feen Health and Wellness (7th-12th)	Provides students with nonjudgmental, straightforward information on today's teen health and wellness issues.	 Hotline Support Mobile Apps Google Translation Text-to-Speech (All languages) Social-Emotional Support
TrueElix (3rd-6th)	Combines Scholastic True Books ebooks content with reading supports and a deep and diverse collection of related videos, images, web links, and text.	 Read Aloud features (highlights words as they are read) Varying reading grade levels Extension activities Video clips Adjustable Text Size Table of Contents

Additional Websites

Digital	Audio
Gutenberg - Public Domain - out of copyright books	Storyline Online - stories read by the Guild Actors
Open eBooks - App - may be resource for students who don't have print disability	Unite for Literacy- books read in multiple languages, including sign language
Manybooks - free public domain ebooks	Foliett Shelf - Contact your school librarian or media director to see if your district has an account
Planetebook-free classic literature. All our novels and books are entirely free for you to download.	Librivox - App or online - public domain audiobooks are free for anyone to listen to, on their computers, iPods or other mobile devices, or to burn onto a CD
Overdrive - access books from your current library via an ebook	YouTube - search for titles of books Storytime Read Aloud-YouTube channel with videos of authors reading their books
Free-ebooks - 5 free downloadable books a month	The Big List of Children's Authors Doing Online Read-Alouds and Activities - stories read by the author
	Brightly Storytime- videos of stories being read
	Read Out Loud- videos of stories being read
	Story Nory audiobooks of Fairytales, Classics, Myths and World, and Poems
	Overdrive - access books from your current library via an audiobooks
	Tar Heel Reader - a collection of free, easy-to-read, and accessible books on a wide range of topics

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Accessibility Tools & Tips Planning for AIM/AEM

Use this resource to plan, consider, and problem-solve possible accessible technologies to support the creation or access to digital print and multimedia sources. This list is not inclusive of all available accessibility tools but simply provides examples for school teams to review and consider as they get started.

Captioning Tools

Audiologist and Teacher of the Deaf and Hard of Hearing Consultants may have more options These tools work across platforms, are free and require internet

YouTube captioning Google Slides

Powerpoint

Zoom

Microsoft Teams Google Meet

Digital OCR (Optical Character Recognition) Scanning

Tools to scan or take picture of inaccessible paper-based material so it is accessible and can be read by a textreader

Copier/Scanner with option to create "accessible" PDF - scan as PDF from copy machine and email it. Open in a textreader, Google Drive or Microsoft Office Lens Standalone Scanner (ie. Flatbed scanner, Hovercam, Solo 8) - scan as PDF and open in a textreader, Google Drive or Microsoft Office Lens.

Camera on phone - open in a textreader, Google Drive, Google Keep or Microsoft Office Lens and take a picture

Setup of Scanning Station Example:

Using Hovercam

- 1. Launch Chrome Browser
- 2. Connect Hovercam and launch software go to www.hovercamflex.com (create free account first and log in) or www.thehovercam.com/livecam (In Chrome go to Tools, Clear Browsing Data if the camera is not picked up and then restart the Chrome Browser
- Place page under the document camera

Snap&Read (Chrome extension) - choose select tool on toolbar, select text on screen (this is preferred Image Reader from Kurzweil 3000 - select text displayed on screen with Image Reader tool (locate in Read menu in Kurzweil 3000.) Kurzweil Taskbar menu, Kurzweil will process and read aloud Read and Write Gold - select Screenshot Reader tool, select text on screen Place page under use use used.
 Open one the text reader tool below: option for Chromebook)

Digital Text Enlargement Tools

Teacher of the Visually Impaired may have more options

Built-In Zoom Magnification Tools

Desktop or Handheld magnifiers for printed material

Zoom Chrome Extension Easily zoom in or out on web page using the zoom button and mouse scroll wheel for more comfortable reading

How to Check if Material is Accessible

Microsoft Accessibility Checker - Check your Microsoft PowerPoint for accessibility.

Nomouse.org The #NoMouse Challenge is a global effort to raise awareness about accessible web design.

Wave Extension - Evaluates web accessibility within the Chrome browser.

Grackle Accessibility Checker for G Suite-Quickly check to see if the Google Document or Sheets is accessible.

AEM/Cast- Best Practices for Educators

Screenshot Reader Tool

Tools to read inaccessible digital text

Snap & Read- Screenshot reader by Don Johnston

Read&Write for Google - Screenshot Reader

ABBYY Screenshot Reader lets you save image screenshots in JPEG, Bitmap or PNG formats.

Text Complexity Reduction/Simplification Tools

with scaffolding as needed at the high end of the student's comprehension range. Modified content may therefore be School teams must provide opportunities for all students to read and comprehend content at grade level complexity Summarizing tools may be useful as identified and documented for individual student learning needs. Contact your modified versions of the content and/or digital tools to reduce text complexity may be beneficial. Modifying and needed for individual students to provide for meaningful learning opportunities within core instruction. Teacher AEA Special Education and/or Reading Consultant if you need more assistance.

Modifying Text

- Snap&Read (<u>Dynamic Text Leveling Tool</u>) Simplifies vocabulary complexity of their reading passages to desired levels Toggles between adjusted & original text
 - Rewordify website Website tool to simplify text

Summarizing Text

- <u>Text Compactor</u>- a free website that allows you to paste in content and have it summarized.
 <u>https://smmry.com/</u> free website that allows you to paste in content and have it summarized.
- Shorten extension Extract the key points in any article you read

Assistive Technology Consideration: Student, Environment, Tasks and Tools (SET

Adapted from the work of Joy S. Zabala. (2005) Assistive Technology Consideration Guide. Based on Denham, A. P., & Zabala, J. S., (1999). Assistive Technology Consideration Guide for IEP Teams and Penny Reed

(2004). WATI Assessment Forms www.wati.org

Initial Meeting Date: District: School Building: E-Mail: Grade: Birthdate: Team Participants: (Names/Titles) Contact/Case Manager:

AT Consideration: Select the instructional area/s in which the student is experiencing difficulty completing tasks and/or goals Adaptive Behavior Communication zz N Math N Vision Vision Reading Hearing zz Other-Specify: Writing Physical z

Employability

Behavior

zz

> >

Identify any related IEP goal(s):

What AT tools or services will address these Discuss the Student, Environment, and Tasks, deciding what the student needs to do in different environments. Lastly... look at the most appropriate tools to accomplish those tasks. Tasks student needs to be able to accomplish. Classes/situations where help is needed. What are the student's needs?

AT concerns continue to exist – Further assessment necessary Student's needs are being met WITH assistive technology -Conclusion: Select one of the three boxes List items and related and support services on IEP Student's needs are being met WITHOUT assistive technology - "considered but not needed" on IEP

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Assistive Technology Consideration: <u>S</u>tudent, <u>E</u>nvironment, <u>T</u>asks and <u>Tools (SETT</u>

Adapted from the work of Joy S. Zabala. (2005) Assistive Technology Consideration Guide. Based on Denham, A. P., & Zabala, J. S., (1999). Assistive Technology Consideration Guide for IEP Teams and Penny Reed (2004). WATI Assessment Forms www.wati.org

School Building: E-Mail: Grade: Birthdate: Team Participants: (Names/Titles) Contact/Case Manager: Student:

Initial Meeting Date:

District:

AT Consideration: Select the instructional area/s in which the student is experiencing difficulty completing tasks and/or goals N Communication
N Adaptive Behavior > > Vision Math zz Reading Hearing z z > > Other-Specify: Physical N Writing N Physical N Other-Sp

Behavior Employability zz > >

Identify any related IEP goal(s):

Ö	Discuss the Student, Environment, and Tasks, deciding what the student needs to do in different environments. Lastly look at the most appropriate tools to accomplish those tasks.	decia	ding what the student needs to do in differen	environments. Lastly.	look at the most approp	priate tools to accomplish those tasks.
	STUDENT		ENVIRONMENTS	TA	TASKS	TOOLS
	What are the student's needs?		Classes/situations where help is needed.	Tasks student needs to	Tasks student needs to be able to accomplish.	What AT tools or services will address these
						tashs: (Carrent, New Or Additional)
•	What does the Student need to do?	•	What materials and equipment are	 What naturally o 	What naturally occurring activities	 What no tech, low tech, mid-tech, and
•	What are the Student' strengths?		currently available in the environment?	take place in the environment?	environment?	high tech options should be considered when developing a
	,			 What is everyone else doing? 	e else doing?	system for a student with these needs
		•	What is the physical arrangement? Are			and abilities doing these tasks in
•	What are the Student's special needs?		there special concerns?	What activities s	What activities support the student's	these environments?
				curricular goals?	_	
		•	What is the instructional arrangement?			 What strategies might be used to
•	What are the Student's current abilities?		Are there likely to be changes?	 What are the crit 	What are the critical elements of the	invite increased student
				activities?		performance?
•	What strategies does the student use?	•	What supports are available to the			
			student?	 How might the a 	How might the activities be modified	 How might these tools be tried out
				to accommodate	to accommodate the student's special	with the student in the customary
		•	What resources are available to the	ueeds?		environments in which they will be
			people supporting the student?			de la company de
				 How might techn. 	How might technology support the	
				student's active p	student's active participation in those	Does the student require accessible,
						textbooks and printed core materials?

April 2020

April 2020

Assistive Technology Consideration: Student, Environment, Tasks and Tools (SETT

Adapted from the work of Joy S. Zabala. (2005) Assistive Technology Consideration Guide. Based on Denham, A. P., & Zabala, J. S., (1999). Assistive Technology Consideration Guide for IEP Teams and Penny Reed (2004). WATI Assessment Forms www.wati.org

Initial Meeting Date: District: School Building: E-Mail: Grade: Birthdate: Team Participants: (Names/Titles) Contact/Case Manager: Student:

AT Consideration: Select the instructional area/s in which the student is experiencing difficulty completing tasks and/or goals Adaptive Behavior Y N Communication Y N Adaptive Behavio Y N Math Y N Vision N Reading N Hearing Hearing **>** > Other-Specify: Physical N Writing z

Behavior Employability

z z > > Discuss the Student, Environment, and Tasks, deciding what the student needs to do in different environments. Lastly... look at the most appropriate tools to accomplish those tasks.

Identify any related IEP goal(s):

What AT tools or services will address these Tasks student needs to be able to accomplish. TASKS Classes/situations where help is needed. ENVIRONMENTS What are the student's needs? STUDENT

5/30/2020

•	What does the Student need to do?	•	What materials and equipment are	•	What naturally occurring activities	•	What no tech, low tech, mid-tech, and
			currently available in the		take place in the environment?		high tech options should be
•	What are the Student's strengths?		environment?				considered when developing a
				•	What is everyone else doing?		system for a student with these needs
							and abilities doing these tasks in
•	What are the Student's special	•	What is the physical arrangement?	•	What activities support the student's		these environments?
	needs?		Are there special concerns?		curricular goals?		
						•	What strategies might be used to
		•	What is the instructional	•	What are the critical elements of the		invite increased student
•	What are the Student's current		arrangement? Are there likely to be		activities?		performance?
	abilities?		changes?				
				•	How might the activities be modified	•	How might these tools be tried out
•	What strategies does the student	•	What supports are available to the		to accommodate the student's special		with the student in the customary
	use?		student?		needs?		environments in which they will be
							nsed?
		•	What resources are available to the	•	How might technology support the		
			people supporting the student?		student's active participation in those	•	Does the student require accessible,
					activities?		alternate format versions of printed
							textbooks and printed core materials?

	AT concerns continue to exist –	Further assessment necessary
Conclusion: Select one of the three boxes	Student's needs are being met WITH assistive technology –	List items and related and support services on IEP
	Student's needs are being met WITHOUT assistive	technology – "considered but not needed" on IEP