Keeping Students First: Assistive Technology CAN Impact Student Outcomes

SELDA

Macon, Georgia October 17, 2019

Paula Gumpman, Program Specialist Georgia Department of Education



Richard Woods, Georgia's School Superintendent | Georgia Department of Education | Educating Georgia's Future

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Alignment with State Priorities

Georgia's Systems of Continuous Improvement

Special Education Division Priorities: IEP Development and Implementation





Non-Endorsement Statement Georgia Department of Education

The Georgia Department of Education does not endorse any non-Georgia Department of Education websites or products contained within these pages or through external hyperlinks. These webpages and documents provide only a sampling of available resources and in no way should be considered an exhaustive list of available resources. It is at the discretion of individual districts and schools to determine appropriate resources to serve stakeholders.



Why should we use technology?

- Impacts outcomes for students
- Provide access to the general curriculum
- Allows students to demonstrate what they know
- Supports differentiation
- Provides independence
- May provide an essential support for communication



Introduction to Assistive Technology

The History

- 1973 Rehabilitation Act of 1973
- 1988 Assistive Technology Act
- 1990 Individuals with Disabilities Education Act
- 1994 Assistive Technology Act
- 1994 Individuals with Disabilities Education Act
- 1998 Americans with Disabilities Act



Definition of Assistive Technology Device

§ Section 300.5 Assistive technology device.

Any item, piece of equipment or product system, whether acquired commercially off the shelf, modified, or customized, that is used to increase, maintain, or improve the functional capabilities of a child with a disability.

The term does not include a medical device that is surgically implanted, or the replacement of such device.

(Authority 20 U.S.C. 1401(1))



Definition of Assistive Technology Service

§ Section 300.6 Assistive technology service.

Any service that directly assists a child with a disability with the selection, acquisition, or use of an assistive technology device.

The term includes-

- (a) The evaluation of the needs of a child with a disability, including a functional evaluation of the child in the child's customary environment;
- (b) Purchasing, leasing, or otherwise providing for the acquisition of assistive technology devices by children with disabilities;



Definition of Assistive Technology Service

§ Section 300.6 (Continued)

- (c) Selecting designing, fitting, customizing, adapting, applying, retaining, repairing, or replacing assistive technology devices;
- (d) Coordinating and using other therapies, interventions, or services with assistive technology devices, such as those associated with existing education and rehabilitation plans and programs;



Definition of Assistive Technology Service

§ Section 300.6 (Continued)

- (e) Training or technical assistance for a child with a disability or, if appropriate, that child's family; and
- (f) Training or technical assistance for professionals (including individuals or rehabilitation services), employers, or other individuals who provide services to employ, or are otherwise substantially involved in the major life functions of children with disabilities.

(Authority 20 U.S.C. 1401(2))



Legal Reference

§ Section 300.324 Development, review, and revision of IEP

- (1) Consideration of special factors. The IEP team must-
 - (v) Consider whether the child needs assistive technology devices and services.

(Authority 20 U.S.C. 1414(d)(3)(B))





Tools to Gauge Progress

Quality Indicators

- 1. Consideration of AT Needs :(QI1-MS Word) (QI1-PDF)
- 2. Assessment of AT Needs :(QI2-MS Word) (QI2-PDF)
- 3. AT in the IEP :(QI3-MS Word) (QI3-PDF)
- 4. AT Implementation :(QI4-MS Word) (QI4-PDF)
- 5. Evaluation of Effectiveness of AT :(QI5-MS Word) (QI5-PDF)
- 6. AT in Transition : (QI6-MS Word) (QI6-PDF)
- 7. Administrative Support for AT : (QI7-MS Word) (QI7-PDF)
- 8. AT Professional Development :(QI8-MS Word) (QI8-PDF)

Quality Indicators Matrices

How to use the Quality Indicators Matrices: (Use - Word) (Use -PDF)

- 1. Matrices Consideration of AT Needs :(MQI1-MS Word) (MQI1-PDF)
- 2. Matrices Assessment of AT Needs :(MQI2-MS Word) (MQI2-PDF)
- 3. Matrices AT in the IEP :(MQI3-MS Word) (MQI3-PDF)
- 4. Matrices AT Implementation :(MQI4-MS Word) (MQI4-PDF)
- 5. Matrices Evaluation of Effectiveness of AT :(MQI5-MS Word) (MQI5-PDF)
- 6. Matrices AT in Transition : (MQI6-MS Word) (MQI6-PDF)
- 7. Matrices Administrative Support for AT : (MQI7-MS Word) (MQI7-PDF)
- 8. Matrices AT Professional Development :(MQI8-MS Word) (MQI8-PDF)

Quality Indicators for Assistive Technology





Quality Indicators for Consideration of Assistive Technology Needs

Consideration of the need for AT devices and services is an integral part of the educational process contained in IDEA for referral, evaluation, and IEP development. Although AT is considered at all stages of the process, the Consideration Quality Indictors are specific to the consideration of AT in the development of the IEP as mandated by the Individuals with Disabilities Education Act (IDEA). In most instances, the Quality Indicators are also appropriate for the consideration of AT for students who qualify for services under other legislation (e.g., 504, ADA).

1. Assistive technology devices and services are <u>considered for all students with disabilities</u> regardless of type or severity of disability.

<u>Intent:</u> Consideration of assistive technology need is required by IDEA and is based on the unique educational needs of the student. Students are not excluded from consideration of AT for any reason. (e.g., type of disability, age, administrative concerns)

2. During the development of an individualized educational program, every IEP team consistently uses a <u>collaborative decision-making process</u> that supports systematic consideration of each student's possible need for assistive technology devices and services.

<u>Intent</u>: A collaborative process that ensures that all IEP teams effectively consider the assistive technology of students is defined, communicated, and consistently used throughout the agency. Processes may vary from agency to agency to most effectively address student needs under local conditions.



Quality Indicators for <u>Consideration</u> of Assistive Technology Needs

Quality Indicator

1. Assistive technology (AT) devices and services are <u>considered for all</u> <u>students with disabilities</u> regardless of type or severity of disability.

		Variations		
UNACCEPTABLE				PROMISING PRACTICES
1 AT is not considered for students with disabilities.	2 AT is considered only for students with severe disabilities or students in specific disability categories.	3 AT is considered for all students with disabilities, but the consideration is inconsistently based on the unique educational needs of the student.	for all students with disabilities and the consideration is	5 AT is considered for all students with disabilities and the consideration is consistently based on the unique educational needs of the student.

3. IEP team members have the <u>collective knowledge and skills</u> needed to make informed assistive technology decisions and seek assistance when needed.

<u>Intent:</u> IEP team members combine their knowledge and skills to determine if assistive technology devices and services are needed to remove barriers to student performance. When the assistive technology needs are beyond the knowledge and scope of the IEP team, additional resources and support are sought.

4. Decisions regarding the need for assistive technology devices and services are <u>based on</u> <u>the student's IEP goals and objectives, access to curricular and extracurricular activities,</u> <u>and progress in the general education curriculum.</u>

<u>Intent</u>: As the IEP team determines the tasks the student needs to complete and develops the goals and objectives, the team considers whether assistive technology is required to accomplish those tasks.

5. The IEP team <u>gathers and analyzes data</u> about the student, customary environments, educational goals, and tasks when considering a student's need for assistive technology devices and services.

<u>Intent</u>: The IEP team shares and discusses information about the student's present levels of achievement in relationship to the environments, and tasks to determine if the student requires assistive technology devices and services to participate actively, work on expected tasks, and make progress toward mastery of educational goals



2. During the development of the individualized educational program (IEP), the IEP team consistently uses a <u>collaborative decision-making process</u> that supports systematic consideration of each student's possible need for AT devices and services.

1	2	3	4	5
No process is	A process is	A collaborative	A collaborative	A collaborative
established for IEP	established for IEP	process is	process is	process is
teams to use to	teams to use to	established but	established and	established and
make AT	make AT	not generally used	generally used by	consistently used
decisions.	decisions, but it is	by IEP teams to	IEP teams to make	by IEP teams to
	not collaborative.	make AT	AT decisions.	make AT
		decisions.		decisions.

3. IEP team members have the <u>collective knowledge and skills</u> needed to make informed AT decisions and seek assistance when needed.

1	2	3	4	5
The team does not	Individual team	Team members	Team members	The team consistently
have the knowledge	members have some	sometimes combine	generally combine	uses collective
or skills needed to	of the knowledge	knowledge and skills	their knowledge and	knowledge and skills
make informed AT	and skills needed to	to make informed AT	skills to make	to make informed AT
decisions. The team	make informed	decisions. The team	informed AT	decisions.
does not seek help	AT decisions. The	does not always	decisions. The team	The team seeks help
when needed.	team does not seek	seek help when	seeks help when	when needed.
	help when needed.	needed.	needed.	

6. When assistive technology is needed, the IEP team <u>explores a range</u> of assistive technology devices, services, and other supports that address identified needs.

<u>Intent:</u> The IEP team considers various supports and services that address the educational needs of the student and may include no tech, low tech, mid-tech and/or high tech solutions and devices. IEP team members do not limit their thinking to only those devices and services currently available within the district.

7. The assistive technology consideration process and <u>results are documented in the IEP</u> and include a rationale for the decision and supporting evidence.

<u>Intent</u>: Even though IEP documentation may include a checkbox verifying that assistive technology has been considered, the reasons for the decisions and recommendations should be clearly stated. Supporting evidence may include the results of assistive technology assessments, data from device trials, differences in achievement with and without assistive technology, student preferences for competing devices, and teacher observations, among others.

COMMON ERRORS:

- 1. AT is considered for students with severe disabilities only.
- 2. No one on the IEP team is knowledgeable regarding AT.
- 3. Team does not use a consistent process based on data about the student, environment and tasks to make decisions.
- 4. Consideration of AT is limited to those items that are familiar to team members or are available in the district.
- 5. Team members fail to consider access to the curriculum and IEP goals in determining if AT is required in order for the student to receive FAPE.
- 6. If AT is not needed, team fails to document the basis of its decisions.



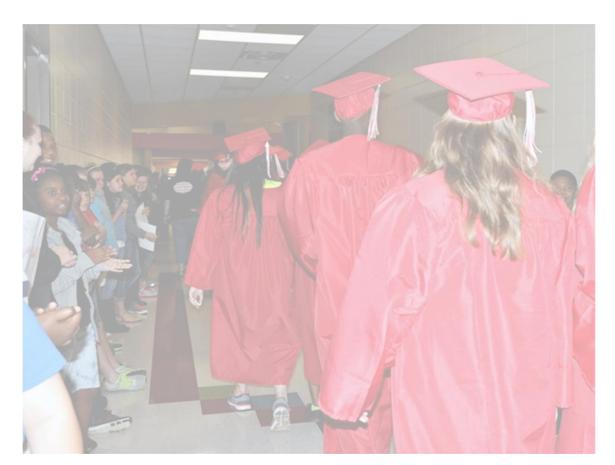
4. Decisions regarding the need for AT devices and services <u>are based</u> on the student's IEP goals and objectives, access to curricular and <u>extracurricular</u> activities, and progress in the general education curriculum.	1 Decisions about a student's need for AT are not connected to IEP goals or the general curriculum.	2 Decisions about a student's need for AT are based on either access to the curriculum/IEP goals or the general curriculum, not both.	3 Decisions about a student's need for AT sometimes are based on both the student's IEP goals and general education curricular tasks.	4 Decisions about a student's need for AT generally are based on both the student's IEP goals and general education curricular tasks.	5 Decisions about a student's need for AT consistently are based on both the student's IEP goals and general education curricular tasks.
5. The IEP team <u>gathers and analyzes</u> <u>data</u> about the student, customary environments, educational goals, and tasks when considering a student's need for AT devices and services.	1 The IEP team does not gather and analyze data to consider a student's need for AT devices and services.	2 The IEP team gathers and analyzes data about the student, customary environments, educational goals or tasks, not all, when considering a student's need for AT devices and services.	3 The IEP team sometimes gathers and analyzes data about the student, customary environments, educational goals and tasks when considering a student's need for AT devices and services.	4 The IEP team generally gathers and analyzes data about the student, customary environments, educational goals and tasks when considering a student's need for AT devices and services.	5 The IEP team consistently gathers and analyzes data about the student, customary environments, educational goals and tasks when considering a student's need for AT devices and services.
6. When AT is needed, the IEP team <u>explores a</u> <u>range</u> of AT devices, services, and other supports that address identified needs.	1 The IEP team does not explore a range of AT devices, services, and other supports to address identified needs.	2 The IEP team considers a limited set of AT devices, services, and other supports.	3 The IEP team sometimes explores a range of AT devices, services, and other supports.	4 The IEP team generally explores a range of AT devices, services, and other supports.	5 The IEP team always explores a range of AT devices, services, and other supports to address identified needs.
7. The AT consideration process and <u>results are</u> <u>documented in the IEP</u> and include a rationale for the decision and supporting evidence.	1 The consideration process and results are not documented in the IEP.	2 The consideration process and results are documented in the IEP but do not include a rationale for the decision and supporting evidence.	3 The consideration process and results are documented in the IEP and sometimes include a rationale for the decision and supporting evidence.	4 The consideration process and results are documented in the IEP and generally include a rationale for the decision and supporting evidence.	5 The consideration process and results are documented in the IEP and consistently include a rationale for the decision and supporting evidence.

Consideration of Special Factors

II. CONSIDERATION OF SPECIAL FACTORS

a)	Does the student have behavior which impedes his/her learning or the learning of others? If yes, consider the appropriateness of developing a Behavior Intervention Plan.	🗆 Yes	🗆 No
	Behavior Intervention Plan developed?	🗆 Yes	🗆 No
	Refer to Behavior Intervention Plan for additional information.		
Ь)	Does the student have Limited English proficiency?	🗆 Yes	🗆 No
	If yes, consider the language needs as related to the IEP and describe below.		
c)	Does the student have blindness/visual impairment?	🗆 Yes	🗆 No
	If yes, provide for instruction in Braille and the use of Braille, unless the IEP Team determines that instruction in Br after an evaluation of the student's reading and writing skills, needs, and appropriate reading and writing media, i instruction in Braille or the use of Braille. Describe below.		
d)	Does the student have communication needs?	🗆 Yes	🗆 No
	If yes, consider the communication needs and describe below.		
e)	Is the student deaf or hard of hearing?	□ Yes	□ No
f)	Does the Student need assistive technology devices or services?	□ Yes □	No e
	If yes, describe the type of assistive technology and how it is used.		
	If not, describe how the student's needs are being met in deficit are	as.	
g)	Does the student require alternative format for instructional materials? If yes, specify format(s) of materials required below.	🗆 Yes	□ No
	🗆 Braille 🔹 Large type 🔹 Auditory 🔹 Electronic text		

This is WHY it is Important!



GRADUATION



High Incidence Disabilities and Assistive Technology

Received Assistive Technology

DID NOT Receive Assistive Technology

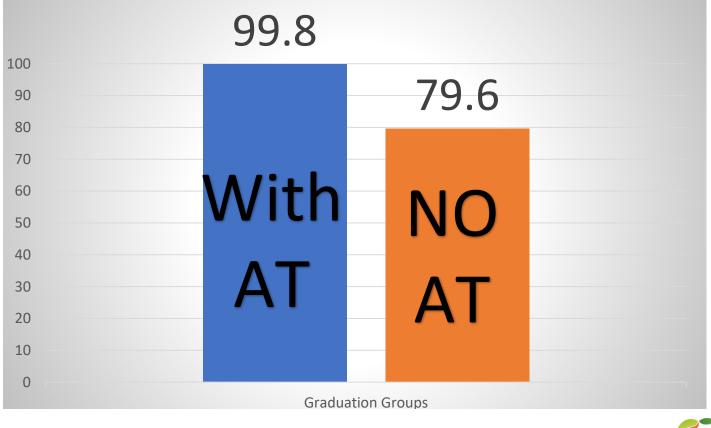
99.8% Graduate
 80.9% Attend Post
 Secondary
 80.0% Paid Job
 after Graduation

79.6% Graduate
 40.1% Attend Post
 Secondary
 50.8% Paid Job after
 Graduation



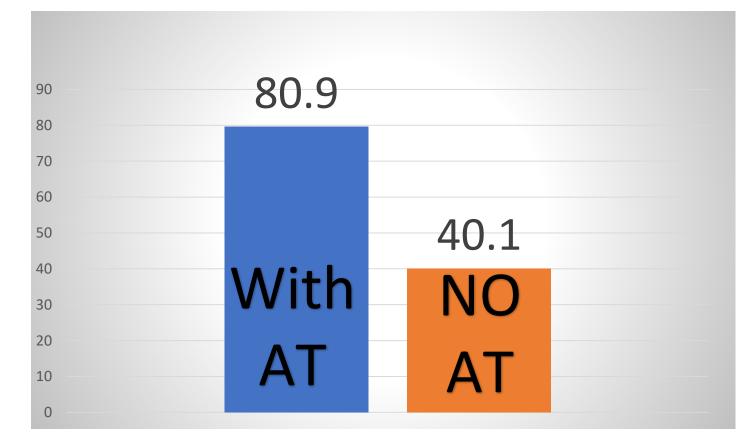
Bouck, E., Maeda Y., & Flanagan, S. (2013) Assistive Technology and Students with High-Incidence Disabilities: Understanding the Relationship Through NLTS2. *Remedial and Special Education*, 33(5) 298-308.

High Incidence Disabilities Graduation Rate





High Incidence Disabilities Attend Post Secondary



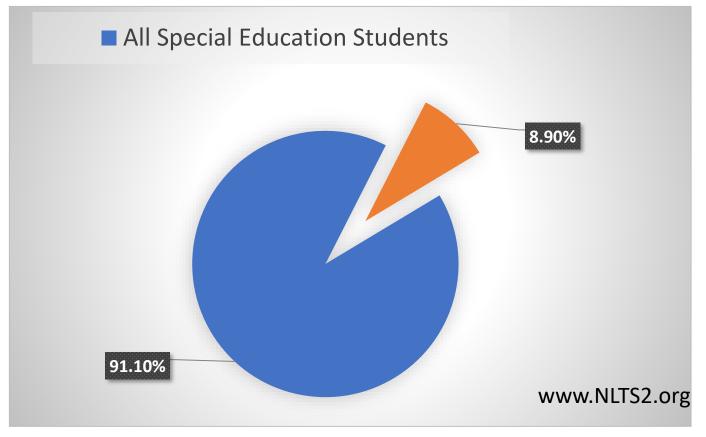


High Incidence Disabilities Paid Job after Graduation





Assistive Technology use Nationally - All Disabilities





2016 Georgia Students with an IEP

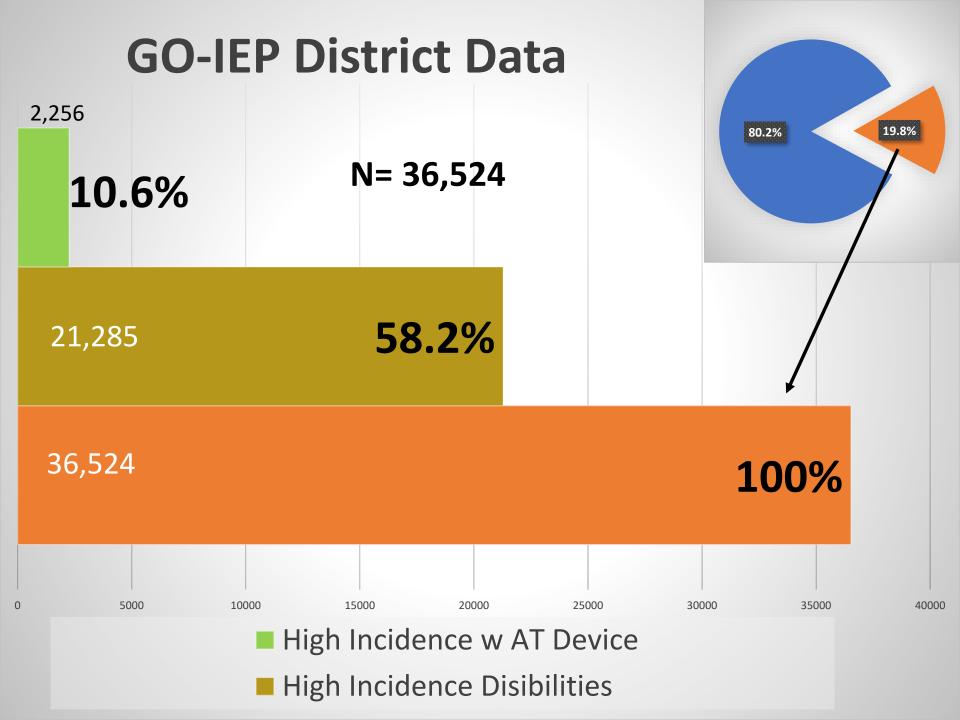
ALL Students in GA w an IEP Go IEP - Students with IEP



19.8%

192,383

80.2%



Consideration of Special Factors is an IMPORTANT consideration

II. CONSIDERATION OF SPECIAL FACTORS

D Braille

Large type

Auditory

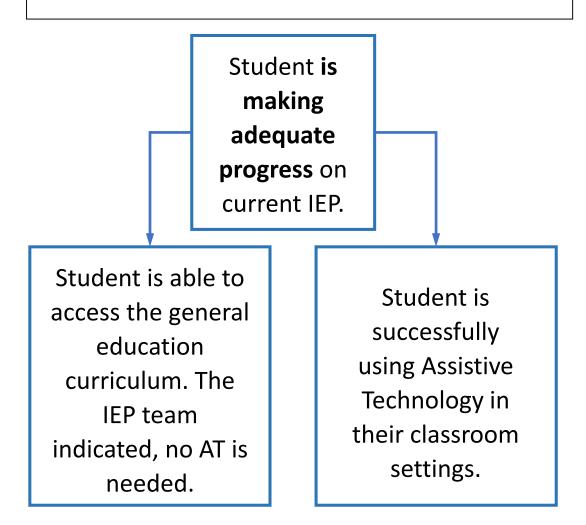
a)	Does the student have behavior which impedes his/her learning or the learning of others? If yes, consider the appropriateness of developing a Behavior Intervention Plan.	🗆 Yes	🗆 No	
	Behavior Intervention Plan developed?	🗆 Yes	🗆 No	
	Refer to Behavior Intervention Plan for additional information.			
Ь)	Does the student have Limited English proficiency?	🗆 Yes	🗆 No	
	If yes, consider the language needs as related to the IEP and describe below.			
c)	Does the student have blindness/visual_impairment?	🗆 Yes	🗆 No	
	If yes, provide for instruction in Braille and the use of Braille, unless the IEP Team determines that instruction in Braille is not appropriate for the student after an evaluation of the student's reading and writing skills, needs, and appropriate reading and writing media, including evaluation of future needs for instruction in Braille or the use of Braille. Describe below.			
d)	Does the student have communication needs?	🗆 Yes	🗆 No	
	If yes, consider the communication needs and describe below.			
e)	Is the student deaf or hard of hearing?	🗆 Yes	□ No	
f)	Does the Student need assistive technology devices or services?	∃ Yes	🗆 No	
	If yes, describe the type of assistive technology and how it is used.			
	If not, describe how the student's needs are being met in deficit area	as.		
g)	Does the student require alternative format for instructional materials? If yes, specify format(s) of materials required below.	🗆 Yes	🗆 No	

Bectronic text

What is the district procedure for addressing AT in the district? Is this procedure written and what role does general supervision play is addressing consideration?

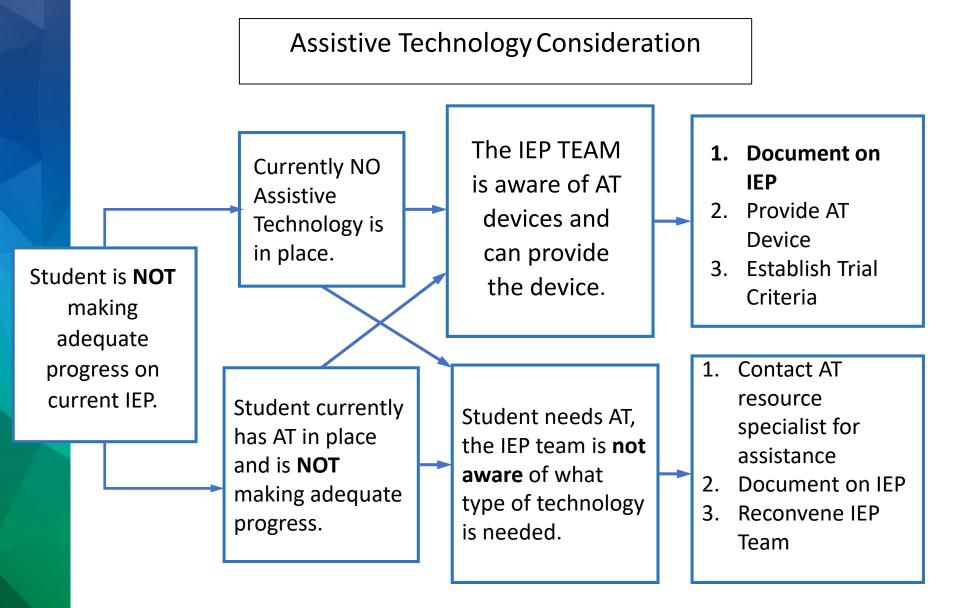


Assistive Technology Consideration Process



Document on IEP







This is WHY it is Important!



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Graduation and Post School Outcomes



AT Resources



Tech Matrix is an online searchable database of assistive and educational technology tools and resources to support learning for students with disabilities and their classmates.

<u>Tech Finder</u> is an online database of expert approved apps and games for children with learning and attention difficulties.



Georgia's Assistive Technology Act Program **AppFinder** - Welcome to the Tools for Life Database - Our Favorite Apps for Living, Learning, Working and Playing!

http://www.gatfl.gatech.edu/favorite-search.php



National Center on Accessible Educational Materials

AEM Explorer

<u>AEM Navigator</u>

Process to guide a team through specialized formats of printed instructional material

A free simulation tool that combines grade level text with common access features to most text reader



AT Resources

https://www.natenetwork.org/

NATE NETWORK

CONNECTING ASSISTIVE TECHNOLOGY SPECIALISTS IN EDUCATION

NATE — the National Assistive Technology in Education Network — brings together information from the many fields and disciplines that are involved in assistive technology services in educational settings. We provide that information in a cohesive, integrated manner, so that people from all disciplines can access it.

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Find a variety of links to AT
resources



Ideas and resources to develop your AT Team ind out about the late

Shared forms and tools from

NATE members

Find out about the latest AT manuals



Learn about research on the effectiveness of AT



Register as a member in the NATE Network



Assistive Technology Team Supports

Resources:

- National Assistive Technology in Education Network (NATE) resources <u>http://www.natenetwork.org/manuals-forms</u>
- Special Education Technology British Columbia (SETBC) – Series of free videos at 'The Learning Centre' -<u>https://www.setbc.org/2009/09/assistive-</u> technology-considerations-for-school-basedteams-2009/



2 Minute Discussion



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Through your Students eyes! Understood.org



for learning & attention issues





Through Your Child's Eyes



Through your Students eyes!

Understood

Your Parent Toolkit



Through Your Child's Eyes

for learning & attention issues

♥ ₽ 8⁺

Experience It

Tailor the simulation, expert advice and child's story by selecting your child's issue(s) and grade level—or select a child from your profile.

Experience It

Explore More

Want to try your hand at all of the simulations? Or hear more children's stories? Choose from the options below.

Simulations

These game-like experiences are a fun way to help you see why learning and attention issues can be so frustrating.





Leverage What You Own!

Building Relationships with district IT

Building Relationships with Curriculum and Media Specialists



Immersive Reader

 If you are an Office 365 district or use Microsoft Office Suite, you have access to this support!





Office 2016 – Home Tab

- Styles- Title, Heading and Normal
- Dictate

Office 2016 – Review Tab

- Read Aloud Speech
- •Translate -



Office 2016 – View

- Learning Tools
 - Column Width
 - Page Color
 - Line Focus
 - Text Spacing
 - Syllables
 - Read Aloud



One Note

- Translate
- •Office Lens app, and link to OneNote
- Immersive Reader



Google Docs

- Share Documents
- Voice Typing
- Explore (Research)
- Dictionary

Tool	s	Add-ons	Help	Access	ibility	All changes say			
	Spelling and grammar								
	W	ord count				Ctrl+Shift+C			
	Re	eview sugg	ested	edits	Ctrl+A	lt+0 Ctrl+Alt+U			
	С	ompare do	cumen	ts		New			
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	Li	nked objec	ts						
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	Tr	anslate do	cumen	it					
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$\langle \rangle$	So	cript editor							
	Pr	references							
Ť	A	ccessibility	settin	gs					

Georgia Department of Education

Impacts Outcomes for Students

- When Gavin spoke about his life before Snap&Read, it was clear he needed a moment to compose himself. His emotions welled up when describing how he stayed up until midnight struggling with homework. Just trying to make sense of words on a page was overwhelming.
- By the time he reached fifth grade, Gavin was reading independently at a first grade level. The IEP team at Leggee Elementary in Huntley, IL faced the decision of placing Gavin in a self-contained classroom. But the team felt this student was capable of much more. They only needed a way to bring out his true potential. So, his teacher assessed him with uPAR.
- It was a move that has changed his life....
- Hear Gavin and his teachers tell what happened next!





Access to the General Curriculum

Accessing technology will remove barriers and impact student engagement.



- Speech to Text (Dictation)
- Using Extensions on the Internet browser
- Digital Text
- Graphic Organizers Paper or Digital



46 Offering a holistic education to **each and every child** in our state.

It can support students that are struggling

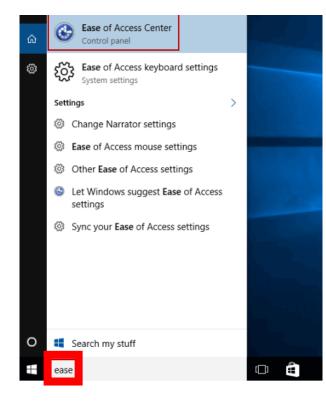
Google Chrome and or Google Docs

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Ease of Access - PC

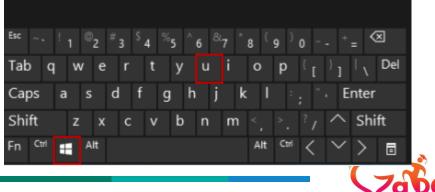
The Ease Of Access in Windows 10 lets you make your computer more accessible, based on your needs. You can change a lot of settings to make your PC work the way you want it to and can be useful to you if you are differently abled.



The available Ease of Access settings are:

Georgia Department of Educa

1.Display
2.Cursor & Pointer
3.Magnifier
4.Color filters
5.High Contrast
6.Narrator
7.Audio
8.Closed captions
9.Speech
10.Keyboard
11.Mouse



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Specialized Format

Provides access to text in an optimal format

- Large Type Books
- Braille
- Audiobooks
- Electronic Books (ebooks)
- <u>AIM Simply Said</u> (video) <u>GIMC website</u>

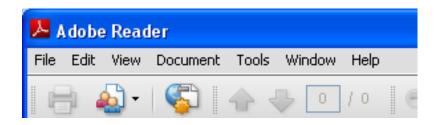
Additional Information: The <u>National Center on Accessible Education</u> <u>Materials</u>



PDF Reading Software

Visual and auditory - provides speech access to unlocked PDFs, may highlight as it reads

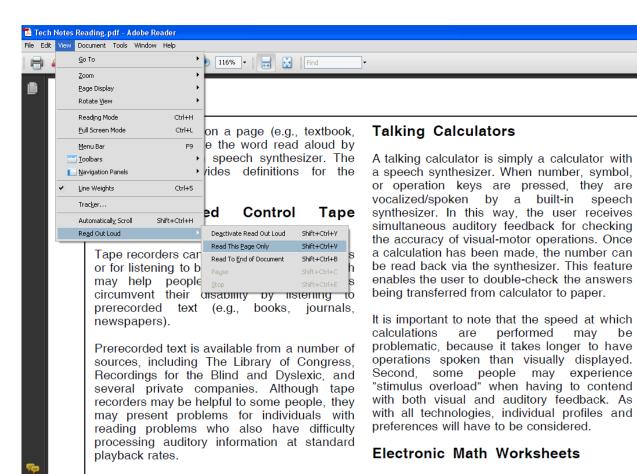
- Adobe Reader
- Advanced Reading Aids







PDF Reading Software Adobe Reader



This problem can be alleviated by the use of variable speech-control (VSC) tape recorder.

Electronic math worksheets can help the user organize, align, and navigate through basic



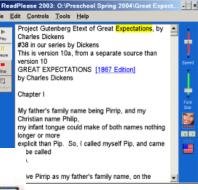
Text Reading Software

Programs that can be used to read text on the computer display. They provide text-to-speech via speech synthesizer software.

- Natural Reader
- E-Text Reader
- Snap & Read



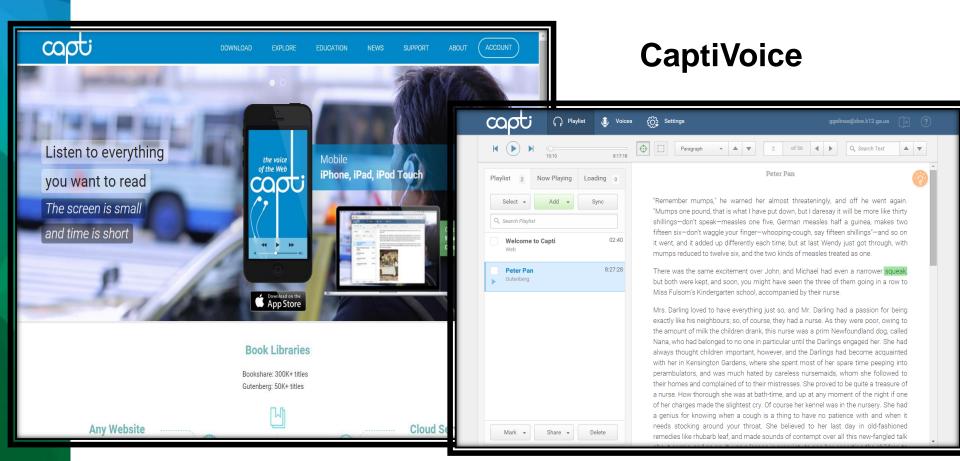




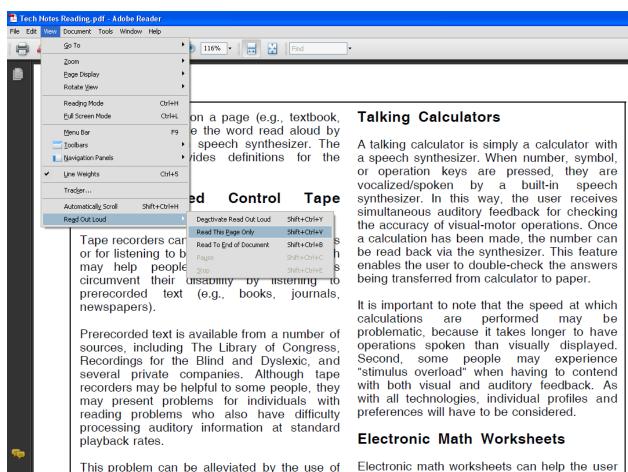


Text Reading Software

Programs that will display specially formatted text on the computer and/or mobile devices – free versions + paid premium versions



PDF Reading Software Adobe Reader



Electronic math worksheets can help the user organize, align, and navigate through basic



variable speech-control (VSC) tape recorder.

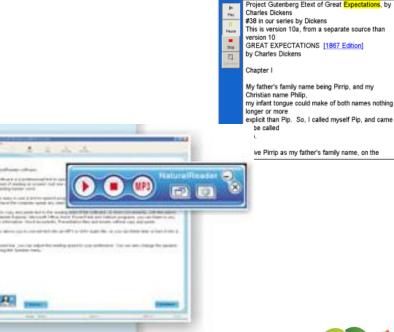
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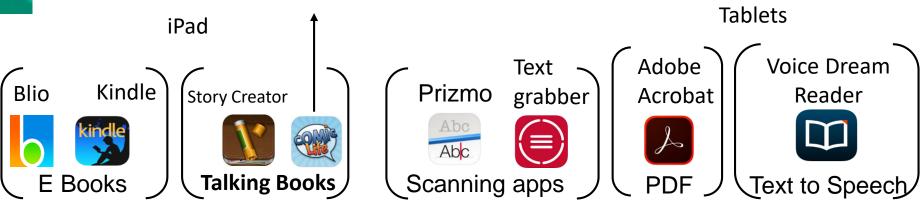
Mobile Devices and Apps

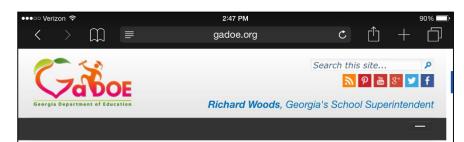




Mini Tablets







→Curriculum, Instruction and Assessment

→Special Education Services and Supports →Student Success: Imagine the Possibilities

Rules, Manuals & Forms Special Education Rules Implementation Manual Frequently Asked Questions Sample Forms Eligibility Categories Autism Deafblind Deaf/Hard of Hearing (D/HH) Emotional & Behavioral Disorder Intellectual Disabilities Orthopedic Impairment Other Health Impairment Significant **Developmental Delay** Significant Learning Disability Speech Language Impairment Traumatic Brain Injury Visual Impairment & Blindness Budgets, Grants, Data Collection and Reporting Budget & Grant Applications LEA Consolidated Application **Data Collection**

Student Success: Imagine the Possibilities

Speak

Сору

The Office of Special Education Programs (OSEP) has required that each State Educational Agency (SEA) develops a State Systemic Improvement Plan that includes a comprehensive, multi-year focus on improving results for Students with Disabilities! Each state must develop a plan that will outline the development of strategies to increase state capacity to structure and lead meaningful change in Local Educational Agencies (LEAs). While the primary focus of the plan is on improvement for Students with Disabilities, the State must also address in its SSIP how the State will use its general supervision systems to improve implementation of the requirements of Individuals with Disabilities Education Act (IDEA). Georgia will implement a systemic plan, "Student Success." in FY16 to improve graduation outcomes for Students with Disabilities.

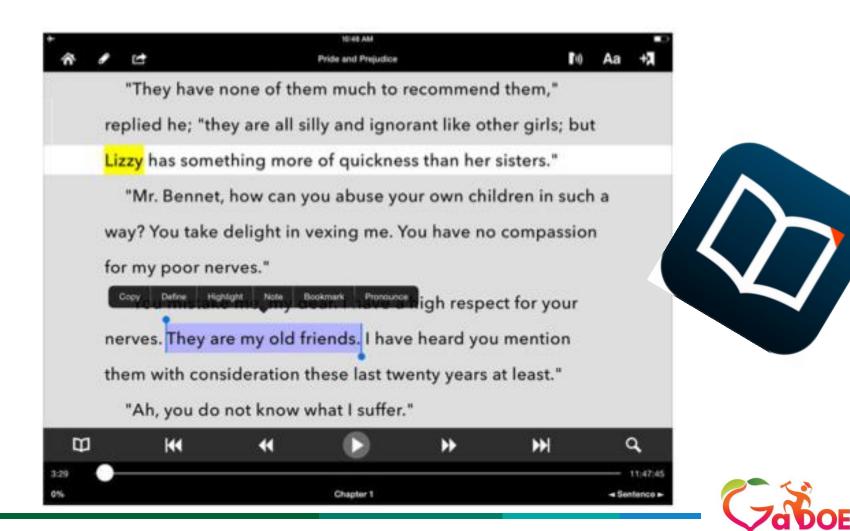
Downloads:

Improving Graduation Rate District Memo

Speak Selection (iPad)



Voice Dream Reader



Georgia Dep

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Claro Applications

- Claro ScanPen
- ClaroPDF Pro
- Claro Speak

-laro

3) Differentiated reading instruction Through this segment, easily lathered data Guide teachers in the formation of small, tempormy groups for targeted instruction. Ultimately, students arogress up a carefully sequenced staircase of increasingly sophisticated skills. The system was developed by Sharon Walpole and Michael Mickenia with Support from the Georgia Department of Education To access Bookworms: bit.ly/gadoebookworms For more reading resources: comprehensivereadingsolutions.com Caitlin McMunn Dooley, Ph.D. Deputy Superintendent Curriculum and Instruction Georgia Department of Education

Georgia Department pr

BOOKWORMS | a comprehensive core reading program for K-5 Bookworms, a comprehensive core reading program for K-5, is available at no cost to all Georgia teachers. Lesson plans, manuals, and other supporting Bookworns, a comprehensive core reading program for K-5, is available at no cost to all Georgia teachers. Lesson plans, manuals, and other supporting resources are available at bit iv/eatioebrokworms.

mplementation requires three 45-minute segments, which can be scheduled

 Interactive read-aloud, grammar, and writing instruction.
 The daily read-shoud, which takes about 15 minutes, is highly interactive, involving
 Frequent easies to common informatial thinking and briefly model commensemption The daily read-aloud, which takes about 15 minutes, is highly interactive, involved frequent pauses to prompt inferential thinking and briefly model comprehension strategies in context. The next 15 minutes involve grammar instruction based on frequent pauses to prompt inforential thinking and briefly model completension strategies in context. The next 15 minutes involve grammar instruction based on sentence controosing, rather than descriptive annumar. The fast 15 minutes are strategies in context. The next 15 minutes involve grammar instruction based on sentence composine, rather than descriptive grammar. The last 15 minutes are reserved for writing, and the read-aloud lesson plans extend through about half sentence composine, rather than descriptive grammar. The last 15 minutes are resoned for writing, and the read-aloud lesson plans extend through about half of writing availant.

1) Interactive read-aloud, grammar, and writing instruction.

2) Shared reading An arrade levels, this segment involves eves-on text and word study – in Kindergaren, through the use of big books to teach print concepts, and in grades 1-2, through a word study component followed by two readings of

2) Shared reading

3) Differentiated reading instruction

It can be a true measure of what the student has learned



Using text to speech to hear the content or the question.

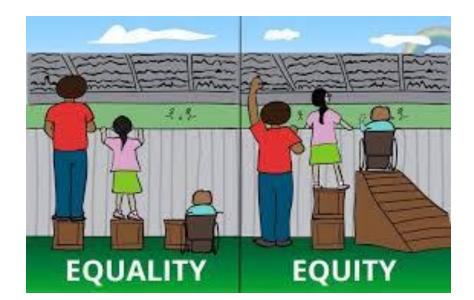
Using speech to text (dictation) to respond.



60 Offering a holistic education to each and every child in our state.

Supports Differentiation

Differentiation means tailoring instruction to meet individual needs. Whether teachers **differentiate** content, process, products, or the learning environment, the use of ongoing assessment and flexible grouping makes this a successful approach to instruction.



What does the student need to have access to the content and to be able to show what they have learned?



Top 10 Assistive Technology Supports for Every Classroom

- Using the technology/AT that is currently in the classroom
- Text to Speech (TTS)
- Audiobooks and/or Digital Books
- Speech to Text (Dictation)
- Built in Accessibility Options
 - PC Ease of Access
 - Mac Book Accessibility Options
 - Mobile Devices Accessibility Options
- Graphic Organizers
- Using Extensions and/or Add-ons with internet browsers
- Mobile Devices
- Visual Supports (classroom and/or behavior management)
- Closed Captioning



Contact Information

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