Assistive Technology Consideration Resource Guide

This is a companion document to the GPAT Assistive Technology Consideration Process Guide to assist IEP teams by providing examples of each area within the AT Consideration Process Guide. Each column contains general examples for each area but is not considered all inclusive. Remember that others who are not familiar with the student may refer to this document to provide supports.

Assistive Technology Services – applies to all instructional and/or access areas.

- Activities that help teams select, acquire and/or provide technical assistance in the use of assistive technology devices
 - Assistive Technology Evaluation of the student
 - Acquisition of AT purchasing or leasing
 - Selecting, designing, fitting, customizing, adapting, applying, maintaining, replacing, and/or repairing AT devices
 - Coordinating and using other therapies, interventions or services with AT devices
 - Training or technical assistance for student or student's family
 - o Training or technical assistance for professionals, employees or others who are involved with the student

Useful Notes for Using this Resource Guide

- Column A: Relates to basic instructional tasks which support the Common Core Georgia Performance Standards (CCGPS) and/or other tasks
- Column B: Standard classroom materials available for student use (listed in alphabetical order)
- Column C: Accommodations, modifications and/or strategies (listed in alphabetical order)
- Column D: Potential Assistive Technology solutions (corresponds to Columns D and E on the GPAT Consideration Process Guide)

A. Area and Sample Instructional	B. Standard Classroom	C. Accommodations/Modifications/	D. Assistive Technology Solutions
Tasks	Materials	Strategies	
Writing/Written Composition: Draw/illustrate Write name Copy information Write letters/words/numbers Align numbers and text Write from dictation Writes legibly Complete written worksheets and/or tests Outline/organize thoughts Write sentences, paragraphs or narratives Take notes Graph Use appropriate spelling,	 Computer/tablet/word processor Crayon/Marker Dictionary, grammar and/or spell checker Document camera Interactive whiteboard Letter and number strip Paper/writing surface Pen 	 Change format or substitute alternatives for written assignments Decrease assignment length Decrease number of responses Increase print size Increase time Optimal student seating appropriate lighting (not facing glare or in shadows) away from extraneous noises close proximity to the teacher (distance) individualized visual 	 Pencil grip or other alternative writing aids Adapted paper bold line raised line different spacing colored graph Positioning Aids (slant board/clip board) Non-slip material Personal dry erase board Slate and stylus Timers Device, software or app spell and grammar checker outlining/ graphic organizers

Assistive Technology Consideration Resource Guide

A. Area and Sample Instructional	B. Standard Classroom	C. Accommodations/Modifications/	D. Assistive Technology Solutions
Tasks	Materials	Strategies	
grammar, punctuation, and/or capitalization • Use digital tools to produce and publish writing • Writes within time frames		proximity to educational environment/materials Oral dictation Peer note taker Picture symbols to supplement written words Pre-teach content specific vocabulary Provide outline or copy of lecture notes Use outline and/or webbing strategies Word banks, sentence starters, and cloze format writing activities for supports	 note taking word prediction word processor text-and-picture-based text-to-speech (talking) speech recognition portable anti-glare screen digital recorders/recording software smartpen onscreen keyboard screen enlargement document scanner electronically scanned worksheets online dictionaries literacy suite software advanced reading and writing aid software that includes: Optical Character Recognition text-to-speech with highlighting study tools dictionary word prediction braille writer braille note taker with refreshable display Alternate access/accessibility features adapted pointers alternative mice keyguards alternative keyboards switch access screen readers speech recognition magnifiers

Assistive Technology Consideration Resource Guide

A. Area and Sample Instructional Tasks	B. Standard Classroom Materials	C. Accommodations/Modifications/ Strategies	D. Assistive Technology Solutions
 Spelling: Identify correctly spelled word Write spelling words from dictation Spell words orally Use correct homonyms Look up words Complete writing tasks with correct spelling 	 Alphabet strip Computer/tablet/word processor Dictionary, grammar and/or spell checker Document camera Flashcards Interactive whiteboard 	 Peer/adult assistance Personal dictionary Preview of vocabulary Use synonyms Word wall/list 	 Phonics phone Portable spell checker with or without auditory output Device, software or app spell and grammar checker word prediction word processor picture-based text-to-speech speech recognition online dictionaries advanced reading and writing aid software that includes:
Reading: Positioning reading material Identify letters/numbers Recognize/read name Decodes words Read common high-frequency words by sight Read words, sentences and/or longer passages Comprehend age/grade appropriate reading materials Literal meaning Inferential meaning Main idea Summarize key points Retell stories with key details in correct sequence	 Computer/tablet/word processor Document camera Electronic texts Interactive whiteboard Projected information Supplemental texts Tests Textbooks Whiteboard Worksheets 	 Change complexity of material Custom vocabulary list Decrease assignment length High interest, low reading level materials Highlight to emphasize key points Increase print size Increase time Optimal student seating appropriate lighting (not facing glare or in shadows) away from extraneous noises close proximity to the teacher (distance) 	 Page fluffers Positioning Aids (slant board/book holders for positioning books) Colored paper, overlay filters or lens Tracking aids Portable dictionary with speech output Handheld reading devices Specialized format books large print audio electronic (eBook) braille Adapted books Device, software or app variable color text/background combinations word processor

Assistive Technology Consideration Resource Guide

A. Area and Sample Instructional Tasks	B. Standard Classroom Materials	C. Accommodations/Modifications/ Strategies	D. Assistive Technology Solutions
Reads with fluency	IVIACCIAIS	o individualized visual proximity to educational environment/materials • Peer/adult assistance • Pre-teach new vocabulary • Provide key points/details ahead of time • Provide picture symbols to supplement printed words • Provide questions ahead of time Provide two sets of textbooks • Read text aloud • Supplement print with audio	 picture-based text-to-speech eBook Readers literacy suite software document scanner advanced reading and writing aid software that includes: Optical Character Recognition text-to-speech with highlighting study tools dictionary word prediction braille note taker with refreshable display Alternate access/accessibility features adapted pointers alternative mice keyguards alternative keyboards switch access screen readers magnifiers
 Math: Identify numbers Use number concepts Complete basic calculations Complete complex calculations Complete math word problems Use time concepts Use money concepts Use measurement concepts Use geometric concepts Use fractions and decimals Use and interpret data Explain knowledge of mathematical process 	 Calculator Computer/tablet/word processor Document camera Formula sheet Graph paper Interactive whiteboard Manipulatives Math chart Math drawing tools Math fact sheet Number line 	 Change assignment format Change complexity of material Color-code operation symbols and/or text Decrease assignment length Dictionary of math terms Group similar problems together Have students verbalize the process Increase print size Increased time Peer/adult assistance Provide additional spacing between problems 	 Adapted paper Tactile graphics Calculator Alternative calculators talking on-Screen braille money Talking watch/clock Device, Software or App equation editors math translator document scanner electronic math worksheets

Assistive Technology Consideration Resource Guide

A. Area and Sample Instructional Tasks	B. Standard Classroom Materials	C. Accommodations/Modifications/ Strategies	D. Assistive Technology Solutions
		 Re-phrase vocabulary in word problems Turn lined paper vertically for ready-made columns 	 graphing color identifier money identifier Adapted measuring devices measuring cups talking tape measures rulers compasses or protractors thermometers
 Study Organizational Skills: Maintain dedicated study time Maintain 'to do' list Follow organizational system Keep track of assignments Follow steps to complete assignments Complete assigned task within designated timelines Request teacher/peer assistance when needed Have appropriate materials/ supplies Identify important points Compile and organize information from various sources 	 Agendas Calendars Classroom reminders Computer/tablet/word processor Document camera Interactive whiteboard Notebooks Parent/student portals Rubrics Social learning networks Study guides Syllabuses 	 Additional spacing between desks Assignment sheet Color coding Daily planner book Dedicated study time Highlighters/sticky notes Optimal student seating appropriate lighting (not facing glare or in shadows) away from extraneous noises close proximity to the teacher (distance) individualized visual proximity to educational environment/materials Outline of key points Peer/adult assistance Provide extra supplies of classroom materials Provide long-term assignment timelines Provide oral and printed directions 	 Digital recorder Device, software or app auditory reminders speech prompting daily planners outlining/graphic organizers advanced reading and writing aid software that includes:

Assistive Technology Consideration Resource Guide

A. Area and Sample Instructional Tasks	B. Standard Classroom Materials	C. Accommodations/Modifications/ Strategies	D. Assistive Technology Solutions
		 Provide portable electronic storage file system cloud technology portable hard drive USB flash drive Provide print copies of ordered steps in a task Sensory supports auditory tactile visual Show a model of the end product Student checklist Study carrel 	
 Follow verbal directions Listen to stories and answer questions Listen to classroom discussion and apply information Listen to teacher lecture and apply information Listen to verbally presented information and retell with correct sequencing and facts Listen to videos to gather information about current instructional topics Respond to environmental stimuli appropriately (someone knocking on classroom door, bell ringing, fire alarm) Paraphrase information heard Focus on/understand verbal responses by classroom peers 	 Closed captioning access to caption ready television and video presentations Computer/tablet/word processor Digital recorder/player Headphones for clarity of sound and blocking of extraneous noises Document camera Interactive whiteboard Projection system/overhead projector Television Video player 	 Audio-tape verbally presented information for repeated presentation Break directions into smaller steps/segments Have student verbally summarize directions Optimal student seating appropriate lighting (not facing glare or in shadows) away from extraneous noises close proximity to the teacher (distance) individualized visual proximity to educational environment/materials Peer note-taker Pre-teach vocabulary and/or components of the lesson 	 Amplification systems soundfield system assistive listening devices Alerting devices Telecommunication devices Digital recorder with indexing capability Device, software or app audiobooks note taking smartpen speech recognition for converting teacher lecture to text and/or sign Closed captioning Translation services

Assistive Technology Consideration Resource Guide

A. Area and Sample Instructional Tasks	B. Standard Classroom Materials	C. Accommodations/Modifications/ Strategies	D. Assistive Technology Solutions
Understand auditory information presented via instructional media		 Provide a written outline of lecture Provide organizer in advance Provide print copy of script in videotapes Provide sign language/oral interpreter Provide unobstructed view of the teacher Reduce distractions Use gestures Use verbal prompts Use visual supports (picture symbols, diagrams, maps) 	
Oral Communication/Language: Gain attention of peers/adults within environment Express wants/needs Request assistance as needed Provide appropriate greetings Inform others Request clarification Participate in collaborative conversations Terminate conversation Ask and answer questions Retell stories Describe Define Sequence Explain Summarize Compare and contrast Persuade Give oral presentations	 Books Computer/tablet/word processor Document camera Interactive Whiteboard Manipulatives Non-verbal communication (gestures and body language) Verbal communication Writing materials 	 Accept alternative responses (i.e. shortened, single word, less grammatically correct) Accept descriptive responses Additional response time Aided language stimulation Engineering the environment Interpreter Model use of communication device Provide questions ahead of time Repetition of spoken answers Teacher modeling Use 'Total Communication' Verbal prompts Video modeling Visual supports 	 Speech amplification systems Communication representation (objects, pictures, symbols, tactile, letters, words) Augmentative & Alternative Communication (AAC) solutions sign language / gestures communication books/boards/wallets/vests Picture Exchange Communication Systems voice Output Communication Aids digitized / synthesized multi-level static / dynamic display computer/tablet app-based Device, Software or App computer tablet Alternate access/accessibility features adapted pointers alternative mice alternative keyboards switch access

Assistive Technology Consideration Resource Guide

A. Area and Sample Instructional Tasks	B. Standard Classroom Materials	C. Accommodations/Modifications/ Strategies	D. Assistive Technology Solutions
Activities of Daily Living: Feeding self Prepare snack & meals Dressing self Perform personal hygiene and grooming tasks Perform medically necessary procedures Perform simple household chores Transferring self Toileting self	ADA compliant accessibility features Cleaning materials and appliances Computer/tablet/word processor Document camera Eating and cooking utensils Personal hygiene tools Safety Rails Ramps	Change complexity of task Increased time Modeling appropriate skills Needed items within reach Stabilization strategies Use visual supports Verbal and/or visual cues	 screen readers magnifiers Graphic organizers Digital recorders Adapted eating utensils Adapted dressing aids Adapted cooking and food preparation aids Adapted personal hygiene aids Adapted household cleaning tools and appliances Adapted toileting equipment Picture cues Environmental control units Power control units Slant board/book holders for positioning Transfer boards Switches
Recreation and Leisure: Participate in games and play activities Participate in art activities Participate in sports and exercise activities Listen to music Read a book Watch TV/Movie Play with toys Participate in social media/online communities Use the computer/internet	 Art materials Books and magazines Games Computer/tablet/word processor Document camera Music (e.g. musical instruments, digital player, CD player, etc.) Puzzles Sports and exercise equipment Toys 	 Adjust workspace for easier access Adult/peer assistance Change complexity of task Model appropriate skills Modify games and activities Sensory supports auditory tactile visual Use readily available materials to provide modifications Verbal and/or visual cues 	 Puzzles with knobs Switch adapted spinners Oversized dice Adapted utensil holders (i.e. crayons, paint brush, stamps) Raised line coloring sheets Adapted scissors Card holders Adaptive sports equipment Adapted games Adapted books Specialized format books Adapted music with symbols Adapted instruments Non-skid surface Switch accessible toys/devices Environmental control devices Power control units and battery adapters

Assistive Technology Consideration Resource Guide

A. Area and Sample Instructional Tasks	B. Standard Classroom Materials	C. Accommodations/Modifications/ Strategies	D. Assistive Technology Solutions
			Alternate access/accessibility features adapted pointers alternative mice alternative keyboards switch access screen readers magnifiers
 Pre-vocational and Vocational: Completes assigned tasks within designated timelines Utilize tools and/or equipment to complete tasks Completes single and multiple step tasks Stays on task until work is complete Stays on task without supervision Self-advocates to get needs met Procurement of accessible instructional materials (AIMs) Contacts post-secondary service providers to obtain assistance Manages finances Safely navigates community and local environments Completes steps to obtain a job 	 Computer/tablet/word processor Document camera Office equipment Pencil and paper Sorting and assembling materials Timers and watches 	 Break tasks into smaller steps/segments Cooperative participation with peers and adults Daily planner book Determine and teach regularly traveled routes to students with visual impairments Follow a picture task analysis Individualized task and material modifications to meet student needs Location identifiers Modification of task length and complexity Orientation to unfamiliar environments Sensory supports auditory tactile visual Show a model of the end product Sighted guide for visually impaired Student self-monitoring sheets Teacher modeling Verbal and/or visual cues 	Watches and timers Electronically scanned application Device, Software or App auditory reminders speech prompting daily planners outlining/graphic organizers financial management software screen enlargement document scanner OCR scanning software braille translation software braille embosser digital recorder/player long white cane GPS for students with visual impairments smart phone with appropriate apps Augmentative & Alternative Communication (AAC) solutions Alternate access/accessibility features adapted pointers alternative mice alternative keyboards switch access screen readers magnifiers

Assistive Technology Consideration Resource Guide

A. Area and Sample Instructional Tasks	B. Standard Classroom Materials	C. Accommodations/Modifications/ Strategies	D. Assistive Technology Solutions
		Video modelingWork checklist	
 Seating, Positioning, and Mobility: Moves about/ambulates around the classroom, school, and/or community Manipulates educational materials as required in assigned activities Maintains appropriate seating/position for participation in relevant activities 	 Chairs, desks and tables Computer workstations 	 Adult assistance Modification of requirements based upon student's daily energy level and the task to be completed Modifications to standard chairs, tables, desks Provide ergonomic seating and positioning Provide multiple seating and positioning options throughout the day Wheelchair friendly classroom set-up 	 Positioning Aids (e.g., prone and supine standers, side lyers) Adapted Classroom Equipment (e.g., tables, chairs and desks Hospital beds Reacher/Grabber Lifts for transfers Mounting systems Bookstand Walkers Crutches/canes Wheelchairs (manual/electric) supports accessories

The assistive technology solutions referenced in this document are included to provide general categories of different types of devices and services used by students with disabilities. The document does not include all assistive technology device and/or service categories.