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

An Assistive Technology Device is any item, piece of equipment, or product system that is used to increase, maintain, or improve the functional capabilities of a child with a disability.

An Assistive Technology Service is any service that directly assists a child with a disability in the selection, acquisition, or use of an assistive technology device. IDEA, 2004 P.L. 108-446, Section 602

Student: Grade/Age: School Building: District:

Contact/Case Manager: E-Mail: Date:

Team Participants (Names/Titles):

**AT Consideration:** Select the instructional or access areas in which the student is experiencing difficulty completing daily tasks and/or goals.

Y N Written Expression Y N Spelling Y N Reading Y N Math Y N Study/Organizational Skills

Y N Communication Y N Listening Y N Vision Y N Daily Living Activities Y N Seating/Positioning

Y N Recreation/Leisure Y N Mobility Y N Hearing Y N Environmental Control Y N Pre-Vocational/Vocational

Y N Other-Specify:

If yes (and linked to an IEP goal, identify that goal(s):

**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.**

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| **STUDENT**What are the student’s needs?(Instructional areas?) | **ENVIRONMENT**Classes/situations where help is needed. | **TASKS**Tasks student needs to be able to accomplish. | **TOOLS** (Complete Last)What AT tools or services will address these tasks? (Current, New or Additional) |
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***Conclusion: Highlight one of the three conclusions below (Select the text and click the ‘Text Highlight’ button in the toolbar.***

* Student’s needs are being met WITHOUT assistive technology => ‘considered but not needed’ on the IEP.
* Student’s needs are being met WITH assistive technology => List items and related support services on the IEP.
* AT concerns continue to exist => Further assessment is necessary.

**Meeting Notes:**

**These are the questions a team should ask itself when considering AT for a student.**

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| **The STUDENT** | **The Student's learning ENVIRONMENTS** | **The TASKS the student is being asked to complete** | **The TOOLS the student has or may need to complete the tasks** |
| * What does the Student need to do?
* What are the Student's special needs?
* What are the Student's current abilities?
 | * What materials and equipment are currently available in the environment?
* What is the physical arrangement? Are there special concerns?
* What is the instructional arrangement? Are there likely to be changes?

 * What supports are available to the student?
* What resources are available to the people supporting the student?
 | * What naturally occurring activities take place in the environment?
* What is everyone else doing?
* What activities support the student's curricular goals?
* What are the critical elements of the activities?
* How might the activities be modified to accommodate the student's special needs?
* How might technology support the student's active participation in those activities?
 | * What no tech, low tech, mid tech and high tech options should be considered when developing a system for a student with these needs and abilities doing these tasks in these environments?
* What strategies might be used to invite increased student performance?
* How might these tools be tried out with the student in the customary environments in which they will be used?
* Does the student require accessible, alternate format versions of printed textbooks and printed core materials?
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**Assistive Technology Assessment Checklist**

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| **SEATING, POSITIONING AND MOBILITY**\_ Standard seat / workstation at correct height and depth\_ Modifications to standard seat or desk\_ Alternative chairs\_ Adapted / alternate chair, sidelyer, stander\_ Custom fitted wheelchair or insert**MOBILITY**\_ Walking devices – crutches / walker\_ Grab bars and rails\_ Manual wheelchair\_ Powered scooter, toy car or cart\_ Powered wheelchair w / joystick or other control\_ Adapted vehicle for driving**COMMUNICATION**\_ Concrete Representation\_ Simple speech generating device\_ Speech generating device with levels\_ Speech generating device with icon sequencing\_ Speech generating device with dynamic display\_ Text based device with speech synthesis | **COMPUTER ACCESS**\_ Positioning of student\_ Standard Keyboard/Mouse with accessibility / access features built into the operating system\_ Standard Keyboard / Mouse with Adaptations\_ Rate Enhancement \_ Alternate Keyboard/Mouse\_ Onscreen keyboard\_ Voice recognition software\_ Eye Gaze\_ Morse Code\_ Switch Access**MOTOR ASPECTS OF WRITING**\_ Environmental and seating adaptations\_ Variety of pens / pencils\_ Adapted pen / pencil\_ Writing templates\_ Prewritten words / phrases\_ Label maker\_ Portable word processor\_ Computer with accessibility features\_ Computer with word processing software\_ Alternative keyboards\_ Computer with scanner\_ Computer with word prediction\_ Computer with voice recognition software | **COMPOSITION OF WRITTEN MATERIAL**\_ Picture Supports to write from/about\_ Pictures with words\_ Words Cards / Word Banks/Word Wall\_ Pocket Dictionary / Thesaurus \_ Written templates and Guides\_ Portable, talking spellcheckers / dictionary / thesaurus\_ Word processing software\_ Word prediction software\_ Digital templates\_ Abbreviation expansion\_ Word processing with digital supports\_ Talking word processing\_ Multimedia software with alternative expression of ideas\_ Tools for citations and formats\_ Voice recognition software**READING**\_ Book adapted for access\_ Low-tech modifications to text\_ Handheld device to read individual words\_ Use of pictures/symbols with text\_ Electronic text\_ Modified electronic text\_ Text reader\_ Scanner with OCR and text reader\_ Text reader with study skill support | **MATHEMATICS**\_ Math manipulatives\_ Low-tech physical access\_ Abacus / math-line\_ Adapted math paper\_ Adapted math tools\_ Math “smart chart’\_ Math scripts\_ Math tool bars\_ On-screen calculator\_ Alternative keyboards / portable math processors\_ Virtual manipulatives\_ Math software and web simulations\_ Voice recognition math software**SELF-MANAGEMENT**\_ Sensory regulation tools\_ Movement and deep pressure tools\_ Fidgets\_ Auditory Reminders\_ Visuals |

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| **INFORMATION MANAGEMENT**\_ Tabs\_ Sticky Notes\_ Highlighters\_ Key Words\_ Study Guides\_ Task Analysis\_ Digital Highlighter and Sticky Notes\_ Handheld Scanner / electronic extraction\_ Study grid generators / grading rubrics\_ Online search tolls\_ Online webtracker\_ Online sorting file tools\_ Digital Graphic Organizer\_ Online manipulatives, interactive, tutorials, animations**TIME MANAGEMENT**\_ Checklist\_ Paper planners / Calendars\_ Visual Schedules\_ Portable, adapted timekeepers\_ Electronic reminders\_ Digital planners\_ Web-based planning tools | **MATERIAL MANAGEMENT**\_ Low-tech organizers\_ Checklists\_ Container System\_ Coding System\_ Electronic filing and storage\_ Portable electronic storage\_ Computer-based tools\_ Tactile measuring devices\_ Abacus\_ Talking calculator\_ Models or 2D and 3D geometric shapes\_ Tiger embossed, PIAF Tactile representation**RECREATION AND LEISURE**\_ Typical toys / puzzles / balls / utensils / etc adapted\_ Flexible rules\_ Specially designed utensils / equipment\_ Electronically / mechanically adapted utensils / equip.\_ Electronic aids – remote controls, timers, etc.\_ Computer-facilitated / based activities\_ Online / Virtual recreational experience | **VISION *–* COMPUTER ACCESS**\_ Color scheme\_ Large operating system features\_ Built-in magnification\_ Fully-featured magnification\_ Screen reader\_ Screen reader with Braille device**VISION *–* READING**\_ Glasses\_ Color Filter\_ Slant-board\_ Large print\_ Optical Magnifier\_ Electronic Magnifier\_ CCTV\_ Monocular\_ CCTV with distance camera\_ Audio text\_ Computer-based reading software\_ Electronic Braille note-taker**VISION - MATHEMATICS**\_ Large print measuring tools\_ Large key calculator\_ Tactile measuring**VISION – WRITING**\_ High contrast pen\_ Portable word processing device\_ Typing with audio support\_ Braillewriter \_ Typing with Braille support\_ Electronic Braille note taker\_ Voice recognition | **VISION – MOBILITY**\_ Cane\_ Monocular\_ Braille / talking compass\_ Electronic travel device\_ GPS device**VISIONS –PICTORIAL INFORMATION**\_ Enlarged format\_ CCTV\_ Models or objects\_ Tactile graphics\_ Tactile-audio graphics**VISION – NOTE TAKING**\_ Slate and stylus\_ Tape or digital recording device\_ Computer-based recording software\_ Electronic Braille note taker**HEARING - TECHNOLOGY**\_ FM\_ Infrared\_ Induction Loop\_ 1:1 Communicators\_ Personal amplification**HEARING - COMMUNICATION**\_ Telecommunication supports\_ Closed captioning\_ Person to person\_ Classroom / group activities\_ Voice to text / sign\_ Real-time captioning |