



Assistive Technology Domains

There are thousands of assistive technology (AT) supports that might assist a student to access, participate, and become more independent in a variety of school activities and tasks including both low- and high-tech options. The following is a chart that can help frame the various student needs that might warrant consideration and application of AT. The examples provided are just a small sampling of AT supports that are available within these domains. This chart is not intended to be an exhaustive list of possible solutions and should not be used as a way to select AT for a specific student. A careful assessment of needs which includes a feature-matching process is required for appropriate selection of specific AT to support a student. For more information about the AT assessment and implementation processes contact the [AT & AEM Center](#) at OCALI.

Areas of AT Consideration:

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| <input type="checkbox"/> Reading | <input type="checkbox"/> Writing: Composition | <input type="checkbox"/> Writing: Motor Aspects | <input type="checkbox"/> Math |
| <input type="checkbox"/> Organization and Study Skills | <input type="checkbox"/> Communication | <input type="checkbox"/> Access to Electronic Devices | <input type="checkbox"/> Mobility |
| <input type="checkbox"/> Seating and Positioning | <input type="checkbox"/> Vision | <input type="checkbox"/> Hearing | <input type="checkbox"/> Activities of Daily Living (ADL) |
| <input type="checkbox"/> Recreation, Leisure and Play | <input type="checkbox"/> Transportation | | |

Reading – Options for adapting reading materials and tools to support all aspects of reading.		
<ul style="list-style-type: none"> ● Change in text size, spacing, color, background color ● Picture supported text ● Page turner, fluffer ● Accessible digital text ● Highlighted text 	<ul style="list-style-type: none"> ● Book stands ● Text-to-speech ● Text summary ● Digital conversion tools - scanners and OCR software, mobile scan-and-read apps 	<ul style="list-style-type: none"> ● Multimedia presentation formats ● Tape/cd/mp3/digital format books ● Braille books ● Leveled books ● Concept maps
Writing: Composition - Aids to support writing composition in the areas of grammar, spelling, drafting, composing, editing, and publishing.		
<ul style="list-style-type: none"> ● Outlining software ● Concept mapping ● Writing templates ● Electronic graphic organizer ● Talking word processor ● Picture supports to write about 	<ul style="list-style-type: none"> ● Electronic spell and grammar check ● Word prediction ● Handheld and inline electronic dictionary/thesaurus ● Tools for citations and formats 	<ul style="list-style-type: none"> ● Word walls and word banks ● Voice recognition or speech-to-text software ● Braille keyboard or notetaker ● Braille printer
Writing: Motor Aspects - Options to support students who struggle with handwriting and other text generation methods.		
<ul style="list-style-type: none"> ● Adapted grips for writing utensils 	<ul style="list-style-type: none"> ● Word processors ● Specialized keyboards 	<ul style="list-style-type: none"> ● Weighted writing utensils

<ul style="list-style-type: none"> Adapted paper Slant board Portable word processor Handheld scanners and apps 	<p>(large, small, programmable)</p> <ul style="list-style-type: none"> Word walls/word banks 	<ul style="list-style-type: none"> Guided notes Writing guides Recording devices Accessibility features
<p>Math - Options to support access to math activities.</p>		
<ul style="list-style-type: none"> Calculator Adaptive calculators Graph paper Physical manipulatives Virtual manipulatives 	<ul style="list-style-type: none"> Specially adapted math tools Math modeling / graphing software Enlarged worksheets 	<ul style="list-style-type: none"> Math processing software Voice recognition for math equations
<p>Organization and Study Skills –Supports to assist with self, time, materials, and information management.</p>		
<ul style="list-style-type: none"> Timers/Alarms Schedules Color coded folders Calendars/Planners Checklists Highlighting Electronic tools to reduce clutter and simplify information 	<ul style="list-style-type: none"> Reminders Rubrics Outlines Guided notes Cloud-based tools Online formatting Chunking / batching Notebooks/Binders 	<ul style="list-style-type: none"> Templates Sticky notes Graphic organizers Masking Keywords Recording devices Sensory regulation tools
<p>Communication - Supports for individuals who have difficulty being understood, and/or using or understanding language.</p>		
<ul style="list-style-type: none"> Picture communication systems Object/Tactile communication systems Computer based communication systems 	<ul style="list-style-type: none"> Voice output Voice amplification systems Talking word processors Visual scene communication boards 	<ul style="list-style-type: none"> Communication enhancement software Communication wallet Eye gaze boards
<p>Access to Electronic Devices – Options to support the use of personal computing devices and consumer electronics.</p>		
<ul style="list-style-type: none"> Switch with scanning Operating system accessibility features Large TV remote Voice activated artificial intelligence assistance (Siri, Alexa) Alternative keyboards 	<ul style="list-style-type: none"> Mouthstick and headpointer Alternative mouse pointer with on-screen keyboard Head controlled mouse Eye gaze system Keyguard 	<ul style="list-style-type: none"> Touch screen Voice recognition software (voice-to-text) Screen reader Screen magnification Joystick/Trackball/track pad Sip-and-puff
<p>Mobility - Equipment that allows individuals to move as independently as possible.</p>		
<ul style="list-style-type: none"> Canes Scooters Grab bars / rails 	<ul style="list-style-type: none"> Walkers Manual or power wheelchairs 	<ul style="list-style-type: none"> Building modifications and adaptations GPS mobility devices

Seating and Positioning - Supports that allow the individual to maintain the best position for learning, work and other functional activities while reducing fatigue.

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| <ul style="list-style-type: none"> ● Non-slip chair surface ● Footrest ● Bolster ● Adapted or alternate chair | <ul style="list-style-type: none"> ● Sidelying frames ● Chair insert ● Head supports ● Trays ● Custom wheelchairs | <ul style="list-style-type: none"> ● Adjustable bed ● Seat cushions/wedges ● Adapted desk/table ● Standing frame |
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Vision - Visual supports including low vision aids or tactile systems such as braille and tactile graphics.

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| <ul style="list-style-type: none"> ● Large-print books ● Tape/cd/mp3/digital format books ● Magnifiers ● Screen enlargers ● Screen Readers ● Beeping ball ● Cane ● Braille materials ● Color filters ● CCTV | <ul style="list-style-type: none"> ● Text-to-speech software ● Use of tactile or auditory materials ● Braille keyboard or notetaker ● Braille printer embosser ● Screen magnification software | <ul style="list-style-type: none"> ● Large screen/key calculator ● High contrast keyboard ● Talking calculator ● Light box ● Digital conversion tools such as scanners and OCR software ● GPS tools |
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Hearing - Amplification, visual and haptic supports for those who are Deaf, hard of hearing or have difficulties with auditory processing.

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| <ul style="list-style-type: none"> ● Amplifiers ● Closed captioning ● Classroom amplification | <ul style="list-style-type: none"> ● Signaling/alerting devices ● Visual signals on the computer | <ul style="list-style-type: none"> ● Personal FM systems ● Text messaging ● Vibrating watches /alarms |
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Activities of Daily Living - Tools that enable the individual to perform self-care/daily living tasks (i.e. feeding, dressing, toileting, grooming).

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| <ul style="list-style-type: none"> ● Adaptive cups ● Jar/bottle opener ● Adapted door knobs ● Reachers/grabbers ● Restroom grab bars ● Hook and loop fasteners | <ul style="list-style-type: none"> ● Specially designed toilet seats/showers ● Environmental control systems (e.g. keyless entry, voice activated lights, etc.) | <ul style="list-style-type: none"> ● Adaptive grooming/dressing/cooking/eating aids ● Home automation (Amazon Echo, Google Home, etc.) |
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Recreation, Leisure and Play – Options for accessing toys, sports activities, crafts and other leisure time activities.

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| <ul style="list-style-type: none"> ● Adapted toys and games ● Adapted puzzles ● Switch activated toys ● Computer games | <ul style="list-style-type: none"> ● Adapted art tools ● Modified stamps, scissors, paint brushes and drawing tools ● Beeping balls | <ul style="list-style-type: none"> ● Adapted sporting equipment ● Adapted bicycle ● Battery operated recreational vehicles |
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Transportation - Adaptations to enable more independent travel within a wide range of environments.

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| <ul style="list-style-type: none"> ● Spinner knobs for car steering wheels ● Ramps | <ul style="list-style-type: none"> ● Foot pedal extensions ● Modified vehicle ● Adapted bikes and | <ul style="list-style-type: none"> ● Wheelchair lifts ● Adaptive driving controls |
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