



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:

- Reading
- Writing: Composition
- Writing: Motor Aspects
- Math
- Organization and Study Skills
- Communication
- Access to Electronic Devices
- Mobility
- Seating and Positioning
- Vision
- Hearing
- Activities of Daily Living (ADL)
- Recreation, Leisure and Play
- 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 	<ul style="list-style-type: none"> ● Electronic spell and grammar check ● Word prediction 	<ul style="list-style-type: none"> ● Word walls and word banks ● Voice recognition or

<ul style="list-style-type: none"> • Electronic graphic organizer • Talking word processor • Picture supports to write about 	<ul style="list-style-type: none"> • Handheld and inline electronic dictionary/thesaurus • Tools for citations and formats 	<ul style="list-style-type: none"> • speech-to-text software • Braille keyboard or notetaker • Braille printer
<p>Writing: Motor Aspects - Options to support students who struggle with handwriting and other text generation methods.</p>		
<ul style="list-style-type: none"> • Adapted grips for writing utensils • Adapted paper • Slant board • Portable word processor • Handheld scanners and apps 	<ul style="list-style-type: none"> • Word processors • Specialized keyboards (large, small, programmable) • Word walls/word banks 	<ul style="list-style-type: none"> • Weighted writing utensils • 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 	<ul style="list-style-type: none"> • Voice output • Voice amplification systems • Talking word processors 	<ul style="list-style-type: none"> • Communication enhancement software • Communication wallet • Eye gaze boards

<ul style="list-style-type: none"> systems • Computer based communication systems 	<ul style="list-style-type: none"> • Visual scene communication boards 	
Access to Electronic Devices – Options to support the use of personal computing devices and consumer electronics.		
<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/trac kpad • Sip-and-puff
Mobility - Equipment that allows individuals to move as independently as possible.		
<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.		
<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
Vision - Visual supports including low vision aids or tactile systems such as braille and tactile graphics.		
<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

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 trikes | <ul style="list-style-type: none"> • Wheelchair lifts • Adaptive driving controls |
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