

**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.

**Areas of AT Consideration:**

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| ❏ 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 |  |  |

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| **Reading** – Options for adapting reading materials and tools to support all aspects of reading. | | |
| * Change in text size, spacing, color, background color * Picture supported text * Page turner, fluffer * Accessible digital text * Highlighted text | * Book stands * Text-to-speech * Text summary * Digital conversion tools - scanners and OCR software, mobile scan-and-read apps | * 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. | | |
| * Outlining software * Concept mapping * Writing templates * Electronic graphic organizer * Talking word processor * Picture supports to write about | * Electronic spell and grammar check * Word prediction * Handheld and inline electronic dictionary/thesaurus * Tools for citations and formats | * 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. | | |
| * Adapted grips for writing utensils * Adapted paper * Slant board * Portable word processor * Handheld scanners and apps | * Word processors * Specialized keyboards (large, small, programmable * Word walls/word banks | * Weighted writing utensils * Guided notes * Writing guides * Recording devices * Accessibility features |
| **Math** - Options to support access to math activities. | | |
| * Calculator * Adaptive calculators * Graph paper * Physical manipulatives * Virtual manipulatives | * Specially adapted math tools * Math modeling / graphing software * Enlarged worksheets | * Math processing software * Voice recognition for math equations |
| **Organization and Study Skills** –Supports to assist with self, time, materials, and information management. | | |
| * Timers/Alarms * Schedules * Color coded folders * Calendars/Planners * Checklists * Highlighting * Electronic tools to reduce clutter and simplify information | * Reminders * Rubrics * Outlines * Guided notes * Cloud-based tools * Online formatting * Chunking / batching * Notebooks/Binders | * Templates * Sticky notes * Graphic organizers * Masking * Keywords * Recording devices * Sensory regulation tools |
| **Communication** - Supports for individuals who have difficulty being understood, and/or using or understanding language. | | |
| * Picture communication systems * Object/Tactile communication systems * Computer based communication systems | * Voice output * Voice amplification systems * Talking word processors * Visual scene communication boards | * Communication enhancement software * Communication wallet * Eye gaze boards |
| **Access to Electronic Devices** – Options to support the use of personal computing devices and consumer electronics. | | |
| * Switch with scanning * Operating system accessibility features * Large TV remote * Voice activated artificial intelligence assistance (Siri, Alexa) * Alternative keyboards | * Mouthstick and headpointer * Alternative mouse pointer with on-screen keyboard * Head controlled mouse * Eye gaze system * Keyguard | * Touch screen * Voice recognition software (voice-to-text) * Screen reader * Screen magnification * Joystick/Trackball/trackpad * Sip-and-puff |
| **Mobility** - Equipment that allows individuals to move as independently as possible. | | |
| * Canes * Scooters * Grab bars / rails | * Walkers * Manual or power wheelchairs | * 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. | | |
| * Non-slip chair surface * Footrest * Bolster * Adapted or alternate chair | * Sidelying frames * Chair insert * Head supports * Trays * Custom wheelchairs | * 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. | | |
| * Large-print books * Tape/cd/mp3/digital format books * Magnifiers * Screen enlargers * Screen Readers * Beeping ball * Cane * Braille materials * Color filters * CCTV | * Text-to-speech software * Use of tactile or auditory materials * Braille keyboard or notetaker * Braille printer embosser * Screen magnification software | * 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. | | |
| * Amplifiers * Closed captioning * Classroom amplification | * Signaling/alerting devices * Visual signals on the computer | * Personal FM systems * Text messaging * Vibrating watches /alarms |
| **Activities of Daily Living** - Tools that enable the individual to perform self-care/daily living tasks (i.e. feeding, dressing, toileting, grooming). | | |
| * Adaptive cups * Jar/bottle opener * Adapted door knobs * Reachers/grabbers * Restroom grab bars * Hook and loop fasteners | * Specially designed toilet seats/showers * Environmental control systems (e.g. keyless entry, voice activated lights, etc.) | * Adaptive grooming/dressing/ cooking/eating aids * Home automation (Amazon Echo, Google Home, etc.) |
| **Recreation, Leisure and Play** – Options for accessing toys, sports activities, crafts and other leisure time activities. | | |
| * Adapted toys and games * Adapted puzzles * Switch activated toys * Computer games | * Adapted art tools * Modified stamps, scissors, paint brushes and drawing tools * Beeping balls | * Adapted sporting equipment * Adapted bicycle * Battery operated recreational vehicles |
| **Transportation** - Adaptations to enable more independent travel within a wide range of environments. | | |
| * Spinner knobs for car steering wheels * Ramps | * Foot pedal extensions * Modified vehicle * Adapted bikes and trikes | * Wheelchair lifts * Adaptive driving controls |