

Matching Common Categories of Assistive Technology to Student Learning Profiles

Category of technology	What does it do?	Possible learning profiles	App or software examples
Text to speech	Reads e-books, scanned texts, pdf files, information accessed on the web, e-mails.	<ul style="list-style-type: none"> • strengths in the areas of auditory memory and verbal comprehension • better listeners than readers • students who need to hear a “backup” to what they are seeing in print • students who are dysfluent readers which might affect comprehension • visual processing difficulties which affects tracking of text 	WordQ, (s) iWordQ (a) Natural Reader (s) iReadwrite (a) Voice Dream (a) Kurzweil (s)
Word prediction	<p>Helps the student write by providing a list of words that fit into the sentence</p> <p>Reduces the number of keystrokes necessary for typing words</p>	<ul style="list-style-type: none"> • weak spellers, but can recognize whole words when a list is presented to them • students who write slowly 	WordQ,, iWordQ Natural Reader iReadwrite Voice Dream Kurzweil
Speech recognition	Converts spoken word to text	<ul style="list-style-type: none"> • difficulty writing/keyboarding due to fine motor issues (also for students with physical disabilities) • written expression difficulties and reading disabilities • stronger expressive language skills • “mental exhaustion” due to severe reading disabilities 	Dragon Naturally Speaking (s)

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Contextual grammar	Corrects the entire sentence while keeping with the writer's intention, even in cases of extreme spelling or grammatical errors.	<ul style="list-style-type: none"> • difficulty recognizing and selecting the correct word from a word list (ex. word prediction) • demonstrates severe spelling errors in writing • demonstrates grammatical errors in writing (prepositions, verb correction, pronouns, misused words, singular/plural) 	Ginger (s) Antidote (s) Medialexie (s) WhiteSmoke (s)
Concept mapping	Allows student to classify ideas, communicate more effectively, and structure the writing process with concept maps	<ul style="list-style-type: none"> • visual strengths • difficulties with organization for the writing process • receptive and expressive language delays/disorders • difficulties with problem-solving and decision-making 	Inspiration (s) InspirationMaps (a) Popplet (a) Corkulous (a)
Visual writing support	Allows student to write with pictures, provides alternative approaches to writing	<ul style="list-style-type: none"> • students who need visual support when writing • beginning writers • students with communication or language disorders that impact written language 	Abilipad (a) ClickerDocs (a) Clicker6 (s)

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Productivity ex. (notetaking, research, annotation)	<p>Provides options to support notetaking skills ex.: sync audio with notes</p> <p>provides a method of collecting and storing information</p> <p>provides structure to organize notes and other information</p>	<ul style="list-style-type: none"> • difficulty processing auditory information; • difficulty isolating important information when taking notes • difficulty synthesizing and summarizing information • difficulty with organization/executive function 	<p>Evernote (s) (a) Skitch (a) Diigo (s) (a) Notability (a) Evernote Webclipper (a) Paperport Notes (a)</p>
Organizational tools/executive function	<p>Provides supports for managing time, keeping track of details and organizing projects, assignments, and events.</p>	<ul style="list-style-type: none"> • Working memory difficulties • Retrieval difficulties • Difficulty with attention to detail • Short and long-term planning difficulties • Attentional difficulties 	<p>istudiez Photomind Remember the Milk Springpad Google calendar Popplet Visual Schedule planner</p>
Augmentative and alternative communication (AAC)	<p>Provides a method of communication for those individuals who are non-verbal or who have limited verbal skills.</p>	<p>difficulties or a diagnosis that affects communication skills (non-verbal)</p>	<p>Dynavox , AMDi, (hardware) Boardmaker (s) Proloquo2Go (a) TouchChat HD (a) Words For Life (a)</p>

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Alternative access for math	Provides the ability to solve math computation problems on the device	<ul style="list-style-type: none"> • students with visual tracking difficulties • students with physical disabilities that affect fine motor skills/handwriting • fine motor difficulties 	Panther Math (a) Intellitools MathPad (s)
Functional skills/visual scheduling/social stories	Allows students to use a visual schedule for transitions Provides opportunities to create interactive social stories	<ul style="list-style-type: none"> • students who need enhanced visual supports in the classroom or workplace • students who have difficulty with transitions 	Pictello (a) Visual Schedule Planner (a) Quick Cues (a) Visual Routine (a) My Video Schedule (a)
Visual support and screencasting	Provides students with visual tutorials and information as backup to auditory information provided.	<ul style="list-style-type: none"> • students who need enhanced visual content due to auditory processing or language difficulties • students who need repetition of content (visual tutorials) or content presented in a differentiated manner • students who have strong visual skills 	Screenchomp (a) Explain Everything (a) Doodlecast (a)

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- *These are guidelines only, and this list is provided for a wide range of learning profiles, abilities, and needs. It is important to match the individual learning profile of the student to the technology.
- *Interpreting and using the results of psychological and speech and language evaluations, developmental reading assessments and assistive technology assessment tools is necessary.
- *Always consider the environment that the student will be working in when recommending specific products.
- *Please note that the examples are not an exhaustive list of products available.