Continuum of Assistive Technology Solutions

AREA of NEED	CHALLENGE	LOW TECH SOLUTIONS	MEDIUM TECH SOLUTIONS	HIGH TECH SOLUTIONS

WRITTEN OUTPUT (Motor)	• Holding a pencil
	• Producing print in space provided
	• Far-point copying tasks (from board/overhead projector, etc.)
	• Near-point copying tasks (from text/ handout, etc.)
	• Producing legible print
	• Producing legible print at grade level pace
	• Following lines on paper
	• Completing forms
	• Completing bubble answer sheets
	• Producing correct size print (too big/too small)
	• Using correct amount of pressure (too hard/too soft)
	• Keeping paper in place
	• Highlighting important information
	• Erasing text
		• Variety of pens/pencils (based on color, size, tactile feedback, etc.)
		• Adaptive pen/pencil grips
		• Adaptive paper (raised line, highlighted lines, etc.)
		• Slant board
		• Personal dry erase board
		• Non-slip writing surface (syceum)
		• Pre-written words/phrases/ sentences, etc.
		• Writing templates & skeletal notes/outlines
			• Portable word processor
			• Tape recorder for dictated responses & note taking
			• Note taking devices (SmartBoard, Braille writer, adapted tape recorder)
				• Computer with word processor
				• Graphic-based word processor
				• Software for:
				  o Spelling and grammar check
				  o Webbing/Outlining
				  o Word prediction

WRITTEN OUTPUT (Composition)	• Completing brief & constructed responses
	• Responding to selected & fill-in-the-blank inquiries
	• Spelling
	• Note-taking:
	• Accurate notes from dictation (independent notes are incomplete or erroneous)
	• Complete notes from dictation (independent notes are taken too slowly)
	• Meaningful notes (independent notes include extraneous information)
	• Using correct sentence structure, syntax
	• Organizing paragraphs
		• Word cards
		• Word booklets
		• Word Wall
		• Pocket dictionary
		• Pocket thesaurus
		• Writing templates
		• Sentence & story starters
			• Electronic/speaking spell checker
			• Electronic/speaking dictionary and/or thesaurus
			• Portable word processor
			• Tape recorder for dictated responses & note-taking
			• Note-taking devices (Smartboard, Braille writer, adapted tape recorder)
				• Computer with word processor
				• Graphic-based word processor
				• Software for:
				  o Spelling and grammar check
				  o Webbing/Outlining
				  o Word prediction

AREA of NEED	CHALLENGE	LOW TECH SOLUTIONS	MEDIUM TECH SOLUTIONS	HIGH TECH SOLUTIONS
	• Transferring thoughts or verbal response to print • Editing written work			

READING	• Letter identification
	• Sight vocabulary
	• Visual tracking
	• Turning pages
	• Reading accuracy (misreading words due to transpositions, deletions, etc.)
	• Comprehension
		• Change size of text
		• Change spacing, text color, background/contrast
		• Picture symbols with text
		• Slant board & book holders
		• Predictable books
		• Page fluffers (for turning pages)
		• Color overlays
		• Tracking strategies (reading window, bar magnifier)
			• Electronic/speaking spell checker (device reads individual words to student)
			• Reading pen
			• Audio-taped books
			• Electronic books
				• Computer with talking word processor
				• Software for:
				  o Text enlargement
				  o Text reading
				  o Webbing/Outlining
				• Advanced reading aids (Kurzweil, WYNN, SOLO)
				• Solutions for converting text into alternative formats (scanner with OCR software, Braille translation software, Braille printer, etc.)

MATH	• Number sense & numeration
	• Organizing math work on paper
	• Problem-solving
	• Conceptual understanding:
	• Computation
	• Logical & critical thinking
	• Patterns & relationships
	• Estimation
	• Measurement
	• Fractions/Decimals/Percents
		• Classroom and desktop number lines
		• Manipulatives
		• Abacus
		• Multiplication Tables
		• Math facts charts
		• Worksheets with enlarged print & space for problem solving
		• Modified paper (bold lines, raised lines, grid paper)
			• Calculator with:
			  o Large keys
			  o Speaking features (auditory feedback)
			  o Large print displays
			  o Embossed output (Braille)
				• Computer with onscreen calculator
				• Electronic worksheet software (MathPad, Access to Math)
				• Adapted measuring devices
				• Voice recognition software (for inputting data)
				• Alternative keyboards (for inputting data)

LISTENING	• Auditory discrimination • Auditory processing (verbal directions & information) • Auditory comprehension (stories read aloud, lectures, etc.)	• Preferential seating • Teacher proximity • Elimination of extraneous noise (air vents, etc.) • Chunking directions • Visual cues		• Personal amplification system • Tape recorder with indexing capability • SmartBoard for transferring written notes to student computers • Voice-to-text software to transfer teacher lecture • Closed captioning, real-time captioning

AREA of NEED	CHALLENGE	LOW TECH SOLUTIONS	MEDIUM TECH SOLUTIONS	HIGH TECH SOLUTIONS
STUDY SKILLS	• Information recall • Sequential tasks • Distinguishing relevant & irrelevant information • Initiating tasks • Completing assignments • Eliminating distractions • Prioritizing • Pacing • Self-monitoring • Time management • Completing multi-step projects	• Printed schedules with visual cues • Color coding • Highlighted text • Systems for organization (binders w/ dividers, pocket folders, etc.)	• Tape recorder for reviewing material • Recorded material from class • Voice output reminders • Electronic organizers • Single word scanners • Hand-held scanners	• Computer-based organizer with adapted input/output • Speech prompting devices • Voice-to-text software for converting teacher lecture to text • SmartBoard for transferring teacher lecture to text • Concept development & graphic organizer software