

## Computer Access Solutions for Students with Physical Disabilities

Category	Examples	Access/Support			
		Physical	Visual	Auditory	Learning
	<b>Computer Input</b>				
Positioning Aids	Slant board (Pocket Full of Therapy)	X			
	Non slip mat (discount store)	X			
	Mobile arm support (Sammons Preston Roylan)	X			
Adapted Pointing Aids	Mouthsticks (Sammons Preston Roylan)	X			
	Head pointers (Sammons Preston Roylan, Zygo Industries)	X			
	Typing aids (Sammons Preston Roylan)	X			
Standard Keyboard Modifications	Keyboard labels (MaxiAids, Hoolean, Don Johnston, Infogrip)		X		X
	Tactile labels (teacher made, Hoolean, MaxiAids)		X		
	Custom made keyguards for computer keyboards (Tech-Able, Turning Point Technology)	X			
	Moisture guards (computer stores)				
Standard Keyboard Utilities	Keyboard properties				
	<ul style="list-style-type: none"> <li>• PC - Control Panel - Accessibility Options (StickyKeys, FilterKeys, ToggleKeys), Control Panel – Keyboard</li> </ul>	X			
	<ul style="list-style-type: none"> <li>• Mac - System Preferences - Universal Access, System Preferences - Keyboard</li> </ul>	X			
Keyboard Alternatives	Enlarged keyboards				
	<ul style="list-style-type: none"> <li>• BigKeys (Greystone Digital)</li> </ul>	X	X		X
	<ul style="list-style-type: none"> <li>• IntelliKeys (IntelliTools)</li> </ul>	X	X		X
	<ul style="list-style-type: none"> <li>• Discover Board (Madentec)</li> </ul>	X	X		X

Category	Examples	Access/Support			
		Physical	Visual	Auditory	Learning
Keyboard Alternatives (continued)	Mini keyboards				
	• Little Fingers keyboard (Datadesk Technologies)	X			
	• USB Mini keyboard (Tash)	X			
	Alternate layouts				
	• PC (to change keyboard layout) – Control Panel - Regional and Language Options - Language Tab - Details (Dvorak – one handed, two handed)	X			
	• Dvorak layout (AlphaSmart 3000, Hoolean Corp., DataCal Enterprises)	X			
	• Programmable Remapping Software/Hardware (Solutions for Humans, Infogrip)	X			
	• Flexible keyboard (Infogrip)	X			
	• Bat keyboard (Infogrip)	X			
	Onscreen keyboards				
	• Windows XP On-Screen keyboard – All Programs - Accessibility	X	X		
	• On-Screen (RJ Cooper)	X	X		
	• Click-N-Type (Lake Software)	X	X		
	• Reach Interface Author with SmartKeys (Applied Human Factor)	X	X		X
	Voice Input for text entry				
	• Microsoft Office Language Bar - Microsoft Office 2002 – Tools – Speech	X			X
	• Dragon Naturally Speaking (Nuance Communications)	X			X
• ViaVoice (Nuance Communications)	X			X	
• Speak to Me! (discreet speech recognition) (RJ Cooper)	X				
Word Prediction Software	Co:Writer 4000 (Don Johnston)	X	X		X
	Word Q (Quillsoft)	X			X

Category	Examples	Access/Support			
		Physical	Visual	Auditory	Learning
Word Prediction Software (continued)	Aurora Prediction for Windows (Aurora Systems)	X	X		X
Standard Mouse Utilities	Mouse Properties				
	<ul style="list-style-type: none"> <li>PC - Control Panel - Accessibility Options – Mouse (MouseKeys), Control Panel – Mouse – Pointers and Buttons</li> </ul>	X			
	<ul style="list-style-type: none"> <li>Mac - System Preferences - Universal Access, System Preferences - Mouse</li> </ul>	X			
	<ul style="list-style-type: none"> <li>Keyboard Shortcuts <a href="http://www.microsoft.com/enable/products/keyboard.aspx">http://www.microsoft.com/enable/products/keyboard.aspx</a></li> </ul>	X	X		
Software to Adapt Cursor and Pointer	<ul style="list-style-type: none"> <li>MicroSoft Intellipoint free download – google search for 'Microsoft Intellipoint' – go to Microsoft to download</li> </ul>		X		
	<ul style="list-style-type: none"> <li>Free and Shareware <a href="http://www.trace.wisc.edu">www.trace.wisc.edu</a> (go to Computers, Software Toolkits, platform and operating system using)</li> </ul>		X		
	<ul style="list-style-type: none"> <li>Biggy Cursor (RJ Cooper)</li> </ul>		X		
Mouse Alternatives	Touch Screen and Monitors				
	<ul style="list-style-type: none"> <li>Magic Touch (Keytec, Inc)</li> </ul>	X			
	<ul style="list-style-type: none"> <li>TouchWindow (Riverdeep)</li> </ul>	X			
	<ul style="list-style-type: none"> <li>Interactive White Board (SMART)</li> </ul>		X		X
	Trackballs				
	<ul style="list-style-type: none"> <li>Traxsys (Penny &amp; Giles) Trackball (Don Johnston, Infogrip)</li> </ul>	X			
	<ul style="list-style-type: none"> <li>Kensington Orbit computer supply store</li> </ul>	X			
	<ul style="list-style-type: none"> <li>BIG track (Don Johnston, Infogrip)</li> </ul>	X			
	<ul style="list-style-type: none"> <li>MiniTrackball (Infogrip)</li> </ul>	X			
	Joysticks				
<ul style="list-style-type: none"> <li>Traxsys (Penny &amp; Giles) Joystick (Don Johnston, Infogrip)</li> </ul>	X				
<ul style="list-style-type: none"> <li>Micropoint (Infogrip)</li> </ul>	X				

Category	Examples	Access/Support				
		Physical	Visual	Auditory	Learning	
Mouse Alternatives (continued)	<ul style="list-style-type: none"> <li>• Quadjoy (Infogrip)</li> </ul>	X				
	Touchpads					
	<ul style="list-style-type: none"> <li>• Easy Cat (Infogrip)</li> </ul>	X				
	<ul style="list-style-type: none"> <li>• Smart Cat (Infogrip)</li> </ul>	X				
	<ul style="list-style-type: none"> <li>• Cruise Cat (Infogrip)</li> </ul>	X				
	Mini Mouse					
	<ul style="list-style-type: none"> <li>• Tiny Mouse (Hatch)</li> </ul>	X				
	<ul style="list-style-type: none"> <li>• Palm Mouse (Infogrip)</li> </ul>	X				
	No Hands Mouse (Infogrip)	X				
	Head Controlled Mouse					
	<ul style="list-style-type: none"> <li>• Smart Nav (Natural Point)</li> </ul>	X				
	<ul style="list-style-type: none"> <li>• HeadMouse Extreme (Origin Instruments)</li> </ul>	X				
	<ul style="list-style-type: none"> <li>• HeadMaster Plus (Prentke Romich, Infogrip)</li> </ul>	X				
	Voice Input for Mouse Functions					
	<ul style="list-style-type: none"> <li>• Dragon Naturally Speaking (Nuance Corporation)</li> </ul>	X				
	<ul style="list-style-type: none"> <li>• Speak to Me! (RJ Cooper)</li> </ul>	X				
	Switch Access	Switch Adapted mouse				
		<ul style="list-style-type: none"> <li>• Switch Adapted Trackball (Don Johnston, Infogrip)</li> </ul>	X			
		<ul style="list-style-type: none"> <li>• Switch Adapted Joystick (Don Johnston, Infogrip)</li> </ul>	X			
		<ul style="list-style-type: none"> <li>• Switch Adapted Kensington Orbit Trackball (Lekotek)</li> </ul>	X			
Switch Interface						
<ul style="list-style-type: none"> <li>• Mouse Mover ( TASH, Infogrip)</li> </ul>		X				
<ul style="list-style-type: none"> <li>• Switch Interface Pro (Don Johnston)</li> </ul>	X					

Category	Examples	Access/Support			
		Physical	Visual	Auditory	Learning
Switch Access (continued)	<ul style="list-style-type: none"> <li>• Switch Hopper (RJ Cooper)</li> <li>• IntelliKeys (IntelliTools)</li> <li>• Discover Board (Madentec)</li> </ul>	X			
		X			
		X			
	Scanning Applications				
	<ul style="list-style-type: none"> <li>• ScanBuddy (Applied Human Factor)</li> <li>• CrossScanner (RJ Cooper)</li> <li>• Discover Switch (Madentec)</li> <li>• ClickIt! (IntelliTools)</li> </ul>	X			
		X			
		X	X		
		X			
	<b>Computer Output</b>				
Standard Monitor Modifications	Display properties				
	<ul style="list-style-type: none"> <li>• PC <ul style="list-style-type: none"> <li>○ Control Panel – Display, Right-click on Desktop – Left-click on Properties</li> <li>○ Control Panel – Accessibility Options – Display</li> </ul> </li> <li>• Mac <ul style="list-style-type: none"> <li>○ System Preferences – Displays</li> <li>○ System Preferences - Universal Access</li> </ul> </li> </ul>		X		
			X		
			X		
			X		
	Magnifier, Zoom				
	<ul style="list-style-type: none"> <li>• PC – All Programs – Accessibility – Magnifier</li> <li>• Mac – System Preferences – Universal Access – Seeing</li> </ul>		X		
			X		
Screen Enlargement Software	<ul style="list-style-type: none"> <li>• ZoomText (AI Squared)</li> <li>• MAGic (Freedom Scientific)</li> </ul>		X		
			X		
Sound Modifications	Sound properties – Volume Control				
	<ul style="list-style-type: none"> <li>• PC - Volume icon on taskbar</li> </ul>			X	

Category	Examples	Access/Support			
		Physical	Visual	Auditory	Learning
Sound Modifications (continued)	<ul style="list-style-type: none"> <li>Mac - Click on Volume icon on menu bar</li> </ul>			X	
Text-to-Speech Software	Text readers				
	<ul style="list-style-type: none"> <li>PC – Microsoft Office 2002 – Tools – Speech – Speak Text (on Language Bar)</li> </ul>				X
	<ul style="list-style-type: none"> <li>Mac – Text to Speech – System Preferences – Sound</li> </ul>				X
	<ul style="list-style-type: none"> <li>ReadPlease (ReadPlease Corp)</li> </ul>		X		X
	<ul style="list-style-type: none"> <li>Talking Buddy (Amazing Software Products, Inc)</li> </ul>		X		X
	<ul style="list-style-type: none"> <li>Universal Reader (Premier Assistive Technology)</li> </ul>		X		X
	Talking Word Processing Software				
	<ul style="list-style-type: none"> <li>Write:OutLoud SE (Don Johnston)</li> </ul>		X		X
	<ul style="list-style-type: none"> <li>IntelliTalk 3 (IntelliTools)</li> </ul>	X	X		X
	<ul style="list-style-type: none"> <li>Word Q (Quillsoft)</li> </ul>				X
	<ul style="list-style-type: none"> <li>Talking Word Processor (Premier Assistive Technology)</li> </ul>		X		X
Screen Readers	JAWS (Freedom Scientific)		X		
	Window Eyes (GW Micro)		X		
Refreshable Braille Display (requires screen reader)	Dedicated braille displays				
	<ul style="list-style-type: none"> <li>Focus Braille Display (Freedom Scientific)</li> </ul>		X		
	<ul style="list-style-type: none"> <li>Brailant Braille Display (Humanware)</li> </ul>		X		
	Braille displays integrated with portable note-takers				
	<ul style="list-style-type: none"> <li>PAC Mate (Freedom Scientific)</li> </ul>		X		
	<ul style="list-style-type: none"> <li>BrailleNote (Humanware)</li> </ul>		X		
<b>Additional Equipment</b>					
Switches	Momentary, Flat switches- various sizes				

Category	Examples	Access/Support			
		Physical	Visual	Auditory	Learning
Switches (continued)	• BigRed switch, jelly bean switch, Spec Switch (Ablenet)	X			
	• Buddy button (Tash)	X			
	Textured switches				
	• Pillow switches (Enabling Devices)	X			
	• Plate switches (Enabling Devices)	X			
	• Proximity switches (Enabling Devices)	X			
	• Textured switches (Enabling Devices)	X			
	• Toggle switches (Enabling Devices)	X			
	Other switches				
	• IST Switch (Infrared, Touch, Sound) (Words Plus)	X			
	• Proximity switches (requires proximity control unit) (Empowering Resource Inc)	X			
Mounting Systems	Universal (Ablenet Inc)	X			
	Ultimate Switch and Mount (Enabling Devices)	X			
	Profiler Mounting System (CJT Enterprises)	X			
	Mighty Mount (Tash)	X			
	E-Mount (Adaptivation)	X			
	DaeSSy Mounting System (Daedalus Technologies)	X			
Printers	Printer (office supply store) consult with school technology specialist	X	X		
Scanners	Scanner (office supply store) consult with school technology specialist	X	X		