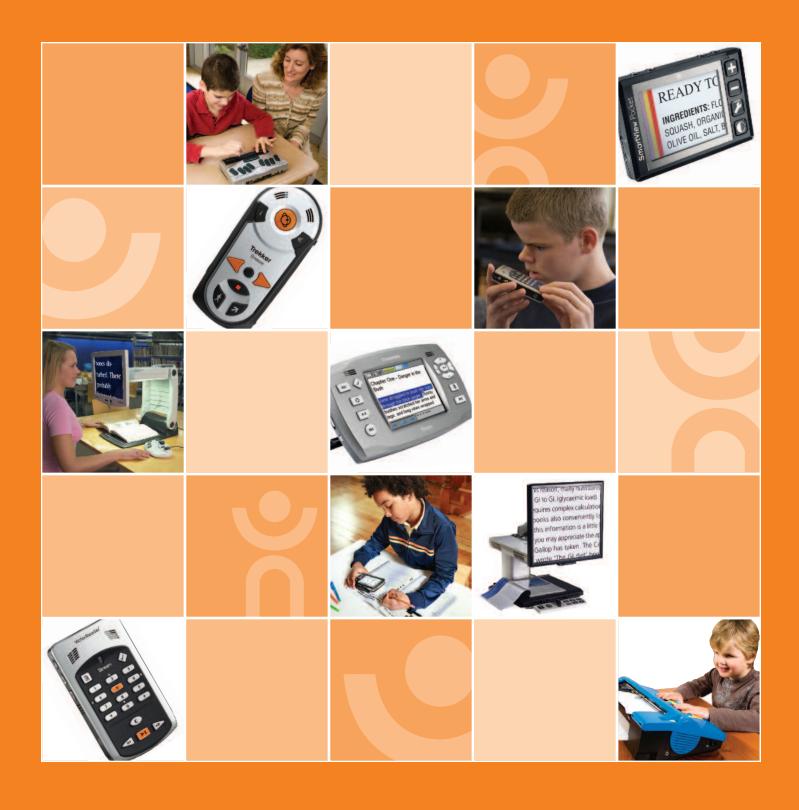


Assistive Technologies Resource Guide

Matching Assistive Technologies With Learning Goals





An Unprecedented Opportunity to Invest in Assistive Technologies

On February 17, 2009, President Obama signed into law the American Recovery and Reinvestment Act (ARRA), commonly referred to as the economic stimulus package. ARRA will more than double the current federal funding for special education and early childhood intervention. Never before has the federal government invested so much in special education. And never before has so much been riding on the decisions made by educators.

In the long term, ARRA seeks to ensure better educational outcomes. The U.S. Department of Education has emphasized, however, that funds should be used for investments that can be sustained after ARRA funding expires. Such investments can include assistive technology, purchase of specialized devices, as well as professional development. All IDEA ARRA funds must be obligated by September 30, 2011.

Assistive technology helps students who have visual impairments or learning disabilities increase their access to the general curriculum and improve their academic performance. Choosing the appropriate technologies and tools such as audio book players, note takers, embossers and video magnifiers that meet students' specific needs today and in the future is critical.

Assistive technology enhances the learning experience in academics and other areas such as organization, independence, orientation and mobility, as well as leisure and recreation. Students are very likely to continue to benefit from using assistive technology tools long after the stimulus funds are gone.

Helping You Determine the Education and Technology Needs for Your Students

HumanWare can assist your school district in evaluating the effectiveness of your current technology, and help you make wise decisions in updating and planning your future technology needs.

HumanWare is the leading company in providing assistive technology within the educational sector for students with visual impairments and those with learning disabilities.

Decisions need to be made that will address the students' current technology needs. Our experienced, knowledgeable team can work with your district staff to identify classroom tasks that can be supported with the appropriate technology.

Key Questions to Ask When Purchasing Assistive Technology

- Does the student have a visual impairment or learning disability impairment?
- Is the student an auditory or tactile braille learner or both?
- How much vision does the student have?
- Can the student use magnification?
- Are motor skills or other disabilities important to consider?
- How long will the piece of technology meet the student's educational needs?
- What type of support and training will be needed?



A Full Range of Innovative Products

HumanWare offers a complete range of innovative products that empower students who have visual impairments and learning disabilities. For over 25 years our products have been designed to last and grow (and in many cases, to go) with the students. HumanWare products give students the independence to compete effectively with peers and feel connected – to be a vital part of the global information age in which we live.

HumanWare Programs and Services Support Education Efforts

■ Braille Literacy Scholarship Programs

Mountbatten Learning System Award – A program to encourage braille learning for early childhood and elementary grades. Offered for children ages 3 thru 8. Parents and teachers tell us why braille literacy will be key to the students' success.

BrailleNote mPower Award — A program to award students who productively and creatively use the BrailleNote mPower in the classroom for reading, writing, math and research. For ages 8 thru 18 years of age.

For more information about these programs, visit www.humanware.com/braille literacy.

Webinars and Professional Development

HumanWare offers a comprehensive schedule of free webinars provided by product managers and frequent guest presenters who are leaders in the assistive technology field.

Technical Support

Free support for HumanWare products is available toll free from 8:00 a.m. EST to 4:00 p.m. PST. The tech support team is comprised of highly trained personnel who are also users of the products. The team is also responsible for providing direct feedback to our Research and Development team in order to improve products and user interface based on customer feedback.

On-Site Workshops and Training Seminars

HumanWare offers free on-site training and workshops provided by qualified product specialists who use the technology in their daily lives, including their employment. We can customize our training to meet the needs of your teachers and students.

Tutorials and curricula have been provided for HumanWare products through leading education agencies, consultants and manufacturers. Resources and free downloads are available at www.humanware.com.

Presentations and Events

To view a schedule of HumanWare presentations and events, visit www.humanware.com/seminars.

One-on-One Consultation

Call today to schedule your free technology consultation from HumanWare. An experienced representative will sit down with you to discuss your organization's specific needs and develop a plan that will meet those needs in both the short- and long-term.

Digital Book Players That Support Audio Textbooks and Reading Materials

- Benefits learners whose primary and/or learning channel is auditory
 - Improves comprehension through built-in study tools
 - Encourages listening to books for recreation and leisure
 - Provides access to DAISY, NIMAS, MP3 and other formats

Assistive Technology	Product Features	Student Benefits
ClassMate Students read digital books and text documents with audio and visual display	Provides synchronized audio and text output	Benefits reading thru multi sensory approach by both hearing and seeing text
	• Text is highlighted as it is being read aloud	 Helps bring focus to important passages
	User defined bookmarks	 Allows quick page and chapter navigation
Elementary thru employment	• Text and voice notes can be added to books	Develops study skills
	Speaking dictionary	• Increases vocabulary, spelling and pronunciation
Victor Stream Portable Digital Book Player and	Small and portable with 15 hours of playback	Flexibility to listen to books at any given time or place
Voice Recorder Elementary thru employment	 Plays educational content from Bookshare, RFB&D, Web Braille, MP3, DAISY, NIMAS, BRF and text files 	 Extensive selection of reading material to match the students interest and reading level
	Create book marks and voice notes	 Develops improved study skills and classroom interaction
	• Record voice notes and lectures	• Improves note taking and listening skills
Victor ClassicX+	Compact and sturdy	Rugged for classroom use
and Wave Desktop Digital Talking Book Players Elementary thru employment	Plays audio DAISY content from RFB&D	• Easy slot load CD insertion
	 Variable speed playback and auto-pitch compensation 	 Playback speed can be adjusted to the complexity of reading material
	High contrast and large buttons for ease of use	 Allows access for low vision or motor challenged students

Learn How Teaching Listening Skills Can Improve Student Achievement

Listening strategy is a listening, summarizing and note taking strategy that will help you turn your students into critical listeners who actively participate in the listening process.

www.learningthroughlistening.org

Bookshare[™] – Accessible Books and Periodicals for Readers with Print Disabilities

- Bookshare is free for all U.S. students with qualifying disabilities
- Bookshare dramatically increases the accessibility of books
- \bullet Bookshare offers a searchable online library of more than 45,000 digital content
- Bookshare offers an extensive online library for readers of all ages

www.bookshare.org



The ClassMate Reader allows students to be independent.
They can read, when and where they want, for the first time.
Non-readers can now experience what a fluent reader can—reading for pleasure.

Alison Gammage Reading Specialist

Low Vision Devices to Assist in Reading Print

- Increases independence in accessing small size print
 - Enhances reading experience by deceasing visual fatigue
 - Improves reading rate and efficiency
 - Encourages writing thru visual confirmation

Assistive Technology	Product Features	Student Benefits
SmartView Pocket Handheld magnifier for reading classroom materials Elementary thru employment	Lightweight, small package	• Easy to carry and use in different classrooms
	 Large, simple keys, large display 	• Intuitive to learn, fun to use
	• Magnifies 3X – 9X	 Instant access to more materials, reduces need for large print
	 Convertible handle/stand for looking at objects and sliding over reading material 	• Easy for younger students to use
	Freeze image feature	 Shows teacher what student is viewing and steadies image
SmartView Versa Handheld magnifier for viewing and reading classroom materials SmartView Versa+	Lightweight, small package, with hard case and belt hook	Portable, protected, harder to misplace
	• Magnifies 5X – 15X	 Access to more materials, reduces need for large print
Handheld magnifier and multi-	Freeze image feature	Shows teacher what is being read and steadies image
media player for education and entertainment	MP3 player, video player	 Increases access to audio learning and incorporates video learning in class and for homework
Elementary thru employment	Audio recorder for note taking	• Increases in-class attention and functions as study aid
	• Storage/retrieval of pictures, audio, video	Provides library of study materials and notes
SmartView Graduate Portable PC based, 2-way (desktop and distance) magnifier Middle School thru employment	Lightweight, quick to assemble system, USB powered from PC	Easily moves from class to class, fits in backpack or laptop bag
	Distance viewing to 50X	 Allows for students to follow classroom presentations
	 Take, store, retrieve classroom snapshots on PC as JPEG file 	 Helps in taking notes from a distance to incorporate in other PC applications
SmartView Xtend and SmartView Synergy Desktop magnifier for classroom Elementary thru employment	Large LCD monitor and x/y reading tray to view variety of print formats	Reduces the need to produce large print copies
	 Programmable high contrast colors and magnification settings 	Allows for multiple users to individualize settings
	 Options for video in, and PC split screen to create customized workstation 	Allows distance viewing with plug-in camcorder
myReader2 Desktop transportable Auto-Reader	Transportable design that folds down with built in handle	• Easy to move from class to class
Elementary thru employment	 Auto scrolling in column, row or word by word modes of captured text 	Requires little physical capability
	 Captured materials can be adjusted to child's visual and learning requirements, 	• Increases reading speed and comprehension
	Built-in video in/out	 Allows distance viewing with plug-in camcorder or larger LCD for group viewing
	Toggle for split screen with PC and printed material	 Allows two documents to be read or viewed at the same time

Braille Devices That Support Reading and Writing

- Improves literacy skills thru:
 - Improvement in writing skills through efficient editing tools
 - Accuracy in spelling and expanded use of vocabulary
 - Provides access to the general curriculum
 - Access to electronic textbooks, worksheets, supplementary support materials
 - Access to research and downloadable books on the Internet

Assistive Technology	Product Features	Student Benefits
Mountbatten Learning System	Ergonomic design and electronic keyboard	Aids in writing and reading braille for early childhood with weak finger strength
Multi-purpose electronic braille writer for learning braille	Auditory feedback when keys are pressed	 Supports learning in a multi-sensory approach with combined speech and braille
Early childhood elementary	 Visual display for interaction with sighted teachers and peers 	 Allows visual monitoring of braille information being written
	Music play mode	 Encourages exploration and introduction of braille keyboard
	 Standard keyboard for creating classroom material in braille 	• Instant communication and interaction between the student, teachers and peers
BrailleNote mPower Productivity tool for word processing, book reader, scientific calculator, Web browser, email	One piece note taker with speech and braille output	Learning is multi-sensory (tactile and auditory) for reading and writing
	 Powerful word processor with spell check, dictionary and thesaurus 	 Improves writing, spelling, vocabulary and understanding meanings of new words
Elementary, high school and	Interactive Nemeth math tutorial	Supports learning the braille math code
employment	 Built-in book reader for reading BRF, Daisy, and NIMAS books from Bookshare, RFB&D and Web Braille 	Provides access to educational curriculum in the students preferred media – speech and braille
	Blind-friendly internet browser (non-graphical)	• Efficient access to resources and research on the internet
Brailliant and Braille	Various character size displays to best represent	Better understanding of applications, complex screen
Connect Braille Displays	the screen	formats and layout
Electronic braille output for mainstream computer applications	Instant real time braille output	Improves spelling and effective editing
,	 Interface with portable and desktop computers 	 Lightweight and easy to transport
Intermediate, high school and employment	 Wireless bluetooth and USB connectivity 	 Dependable connectivity without cables



employment

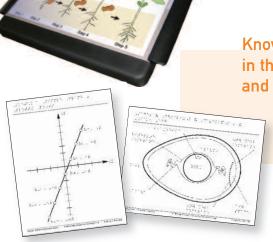
I know this device (MountBatten Learning System) is going to provide my student with the best tool for developing his reading and writing skills in the same manner as his sighted peers. ">

Peggy Abernathy MISD Teacher of the Visually Impaired Mckinney, Texas

Braille Devices That Support Math, Science and Social Studies

- Provides access to simple and complex math equations and formulas
 - Provides detailed speech and braille descriptions of graphs and charts
 - Enhances understanding of graphical information
 - Develops and improves tactile reading skills

Assistive Technology	Product Features	Student Benefits
PIAF (Pictures in a Flash) Creates raised line, tactile drawing, shapes and simple diagrams	Simple method to create basic shapes and graphics	Supports learning math and science
	• Tactile material can be drawn and customized for classroom topics	 Provides introduction to skills for reading tactile images
Early childhood thru employment	• Students can draw or learn to print	Promotes self expression and spatial concepts
ViewPlus Braille Embossers Produce hard copies of braille,	Translates text into braille	Easy to create classroom material in braille from MS Word
Nemeth math and tactile graphics with print and braille labeling	• Translates math into Nemeth braille	 Quickly produce braille math by sighted teachers
Early childhood thru employment	Produces detailed tactile graphics	 Increases understanding of science and math concepts
, , ,	Braille and print are produced on same page	 Low vision and sighted peers can follow along with print on the braille page
Audio Graphing Calculator Accessible audio graphing calculator	Graphs are represented in audio tones	Provides access to understanding math and science graphs
	Spoken menus and keyboard commands	Accessible to students with visual impairments
Intermediate thru employment	Graphs are produced in an audio format or a hard copy in braille	 Improves comprehension thru multi-sensory approach (tactile and auditory)
IVEO Hands-On Learning Auditory information for tactile graphics Early childhood thru employment	Tactile drawing with speech output provides detailed descriptions at various levels	Assists learning and understanding with two modes of information
	Scalable graphics	 Allows for more detailed information without adding complexity
	• Recorded voice, sounds and web sites can be included	Engages exploration of tactile graphics



Knowledge is power—the power to achieve, function in the family, thrive in the community, succeed in a job, and contribute to society.

Devices That Support Independent Travel Skills

- Improves orientation
 - Increases confidence during mobility
 - Achieves better understanding of immediate surroundings
 - Encourages participation in school and social activities

Assistive Technology	Product Features	Student Benefits
BrailleNote GPS GPS software and receiver to assist in travel	Speech and braille output	Braille readers travel with less distraction in noisy environments
	Ability to create routes	• Students can prepare and study routes prior to trave
Elementary thru employment	Virtual exploration mode	 Students become more familiar with neighborhoods and cities
	 Headings, points of interest and street names are spoken 	Students travel with more confidence
Trekker Breeze All-in-one GPS device to aid in travel	Clear speech output	Useful for low vision, non-braille readers and other disabilities
Elementary thru employment	Nine key user interface	• Easy to learn
	 Create routes while walking with instructor 	 Reinforces mobility instruction
	 Spoken information on heading, street names and points of interest 	• Students travel with confidence and assurance from auditory confirmation
Trekker Pro Feature-rich PDA with external GPS receiver	Portable device with speech output	Lightweight and small in size for students to carry
	Ability to create routes	• Students can prepare and study routes prior to travel
Intermediate thru employment	Virtual mode	 Students can explore and become familiar with neighborhoods and cities
	 Provides headings, points of interest and street names 	 Students can travel with confidence and assurance from auditory confirmation

Reading Devices That Make Printed Material Accessible

- Allows quick and timely access to print material
 - Elevates learning by keeping pace with the general curriculum
 - Provides assisted reading as a tool to compensate reading challenges
 - Improves auditory and listening skills

Assistive Technology	Product Features	Student Benefits
ScannaR	Easy user interface	Computer skills are not necessary
All-in-one scan and read solution	Natural speech output	• Easy to understand
Elementary thru employment	Self contained one-piece device	• Easy to transport
	 Expansive memory to store reading library 	 Reading material is readily available
Kuzweil 1000 Scan and read software for PC	Read printed text with magnification, speech or with optional braille output	Useful for low vision and blind readers
Elementary thru employment	 Scanned material can be transferred to portable devices 	 Allows for students to read on a device of their choice
	 Scanned material can be produced in large print or braille 	• Information is provided in preferred format