

A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For the Mechanics of Writing

Regular pencil or pen

ł

Pencil or pen with adaptive grip

Adapted paper (e.g. raised line, highlighted lines)

 $\mathbf{1}$

Slantboard to create slanted writing surface

ł

Use of prewritten words/phrases

$\mathbf{1}$

Portable word processor to keyboard instead of write

Υ

Computer with word processing software

 $\mathbf{\Psi}$

Portable scanner with word processing software

 $\mathbf{\Psi}$

Voice recognition software to word process

(See Computer Access Continuum)



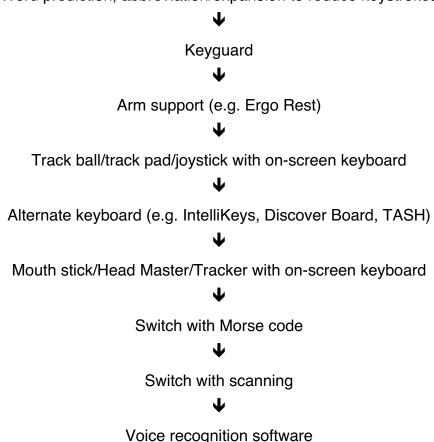
A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Computer Access

Keyboard using accessibility options

1

Word prediction, abbreviation/expansion to reduce keystrokes





A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Composing Written Material

Word cards/word book/word wall

Ł

Pocket dictionary/thesaurus

Ţ

Writing templates

 \mathbf{V}

Electronic/talking electronic dictionary/thesaurus/spell checker

 $\mathbf{\Psi}$

Word processing with spell checker/grammar checker



Talking word processing ↓

Abbreviation/expansion

$\mathbf{1}$

Word processing with writing supports

Multimedia software for expression of ideas

$\mathbf{1}$

Voice recognition software



UKAT Toolkit; 6.14.02

Continuum of Considerations

A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Communication

Communication board/book with pictures/objects/letters/words

Ł

Eye gaze board/frame

¥

Simple voice output device

 $\mathbf{\Lambda}$

Voice output device with levels

 $\mathbf{1}$

Voice output device with icon sequencing

Voice output device with dynamic display

Device with speech synthesis for typing



A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Reading

Standard text

↓

Predictable books

¥

Changes in text size, spacing, color, background color

 $\mathbf{\Psi}$

Book adapted for page turning (e.g. page fluffers, 3-ring binder)

 $\mathbf{\Psi}$

Use of pictures/symbols with text

 $\mathbf{\Psi}$

Talking electronic device/software to "pronounce" challenging words

¥

Single word scanners (e.g. Seiko Reading Pen)

¥

Scanner w/OCR and talking word processor

ł

Electronic books



A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Learning/Studying

Print or picture schedule

 $\mathbf{\Psi}$

Low tech aids to find materials (e.g. index tabs, color coded folders)

Highlight text (e.g. markers, highlight tape, ruler)

 $\mathbf{\Psi}$

Recorded material

(e.g. books on tape, taped lectures with number coded index, etc.)

ł

Voice output reminders for assignments, steps of task, etc.

 $\mathbf{\Lambda}$

Electronic organizers

1

Pagers/electronic reminders

Ŷ

Single word scanners

Ą

Hand-held scanners

$\mathbf{\Psi}$

Software for concept development/manipulation of objects - may use alternate input device, e.g. switch, touch window

\mathbf{V}

Software for organization of ideas and studying (e.g. Inspiration, Claris Works Outline, PowerPoint, etc.)

Palm computers

J



A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Math

Abacus/Math Line

 $\mathbf{\Psi}$

Enlarged math worksheets

¥

Low tech alternatives for answering



Math "Smart Chart"

Υ

Money calculator and Coinulator

 $\mathbf{\Psi}$

Tactile/voice output measuring devices

 $\mathbf{\Psi}$

Talking watches/clocks

$\mathbf{1}$

Calculator/calculator with print out/calculator with large keys and/or large display

Talking calculator

↓

Calculator with special features (e.g. easy fraction translation, etc.)

On-screen/Scanning calculator

Ť

Alternative keyboards (e.g. IntelliKeys)

Software with cueing for math computation or manipulation of objects

Voice recognition software

Reprinted with permission of Penny Reed (editor), Wisconsin Assistive Technology Initiative (WATI); Assessing Student's Needs for Assistive Technology ©2000.

Continuum of Considerations; p. 7



A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY **For Recreation and Leisure**

Toys adapted with Velcro[™], magnets, handles, etc. ┛

Toys adapted for single switch operation

Adaptive sporting equipment (e.g. lighted or beeping ball) J

Universal cuff or strap to hold crayons, markers, etc. J

Modified utensils (e.g. rubber stamps, rollers, brushes)

J

Ergo Rest or other arm support

J

Electronic aids to control/operate TV, VCR, CD player, etc.

J

Software to complete art activities

Ł

Games on the computer ┛

Other computer software



A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Activities of Daily Living (ADLs)

Nonslip materials to hold things in place

 $\mathbf{1}$

Universal cuff/strap to hold items in hand

 $\mathbf{\Psi}$

Color coded items for easier locating and identifying

Adaptive eating devices (e.g. foam handles, deep sides)

 $\mathbf{\Psi}$

Adaptive drinking devices (e.g. cup with cut out rim)

 $\mathbf{1}$

Adaptive dressing equipment (e.g. button hook, elastic shoe laces, Velcro[™] instead of buttons)

¥

Adaptive devices for hygiene (e.g. adapted toothbrush, raised toilet seat, etc.)

ł

Adaptive bathing devices

Ł

Adaptive equipment for cooking



A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Mobility

Walker

 $\mathbf{\Psi}$

Grab bars and rails

$\mathbf{\Psi}$

Manual wheelchair

¥

Powered mobility toy (e.g. Cooper Car, GoBot)

$\mathbf{1}$

Powered scooter or cart

$\mathbf{\Psi}$

Powered wheelchair w/ joystick or other control

$\mathbf{\Psi}$

Adapted vehicle for driving



UKAT Toolkit; 6.14.02

Continuum of Considerations

A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Control of the Environment

Light switch extension

Use of interface and switch to activate battery operated devices $\buildrel {\ensuremath{\Psi}}$

Use of interface and switch to turn on electrical appliances (e.g. radio, fan, blender, etc.)

ł

Radio/ultra sound to remotely control appliances

Use of electronic aid to daily living to control environment in connection with an augmentative communication device



A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Seating and Positioning

Standard seat at correct height and depth

 $\mathbf{1}$

Non-slip surface on standard seat to prevent slipping (e.g. Dycem)

 $\mathbf{\Psi}$

Bolster, rolled towel, blocks to assist is positioning

 $\mathbf{\Lambda}$

Adapted/alternate chair, sidelyer, stander

 $\mathbf{\Psi}$

Custom fitted wheelchair or insert

Reprinted with permission of Penny Reed (editor), Wisconsin Assistive Technology Initiative (WATI); Assessing Student's Needs for Assistive Technology ©2000.

Continuum of Considerations; p. 12



A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Vision

Eye glasses

¥

Magnifier

 $\mathbf{\Psi}$

Large print books

$\mathbf{\Psi}$

CCTV (closed circuit television)

$\mathbf{\Psi}$

Screen magnifier (mounted over screen)

¥

Screen magnification software

¥

Screen color contrast

$\mathbf{\Psi}$

Screen reader, Text reader

$\mathbf{\Psi}$

Braille translation software

$\mathbf{\Psi}$

Braille printer

$\mathbf{1}$

Enlarged or Braille/tactile labels for keyboard

ł

Alternate keyboard with enlarged keys

¥

Braille keyboard and note taker



A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY For Hearing

Pen and paper

ł

Computer/portable word processor

 $\mathbf{\Psi}$

TDD for phone access with or without relay

J

Signaling device (e.g. flashing light, vibrating pager)

 $\mathbf{1}$

Closed captioning

$\mathbf{\Psi}$

Real Time captioning

↓

Computer aided note taking

$\mathbf{\Psi}$

Screen flash for alert signals on computer

ł

Phone amplifier

Υ

Personal amplification system/Hearing aid

ł

FM or Loop system

Ŷ

Infrared system