Technology and Teacher Education:
Integrating Assistive/Instructional Technologies Across Teacher Education

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http://www.pt3.org/
Online Learning

• iChat for Video Interaction
  – www.apple.com
  – www.aim.com/

• Internet Video Conferencing
  – www.polycom.com/home/

• Marratech
  – emeeting.kan-ed.org
Online Learning

- PodCasting
  - audacity.sourceforge.net
- BlackBoard
  - courseware.ku.edu
- Building Context
  - Apple’s iMovie
  - Microsoft’s MovieMaker
  - United Streaming
    - http://www.unitedstreaming.com/
AT Integration Thoughts

• Focus on Universal Design for Learning Principles
  1. To support recognition learning, provide multiple, flexible methods of presentation
  2. To support strategic learning, provide multiple, flexible methods of expression and apprenticeship.
  3. To support affective learning, provide multiple, flexible options for engagement.
Social Studies
Science
Across Content

Universal Design for Learning
Examples
National Instructional Materials Accessibility Standard

- **NIMAS** guides the production and electronic distribution of digital versions of textbooks and other instructional materials so they can be more easily converted into accessible formats.

http://www.cast.org
Ben’s Guide to Government

• Multiple levels
• Similar content
• Across grades

http://bensguide.gpo.gov
Windows to the Universe

- Adjust Reading Level
- Definitions
- Games
- Classroom Activities
- Spanish Version

http://www.windows.ucar.edu
BrainPop Jr.

- Introductory “cartoon” or “movie” that sets the context for the learner.
- Quizzes, experiments, comic strips, timelines, and printable activities
- Includes standards-based content searchable via topic area.

http://www.brainpopjr.com
Reading

Universal Design for Learning
Text-to-Speech

- Free text-to-speech software (for PC)
- Internal to all Macs
- Works on Keyboard Command
- Adjustable voice speed (rate)
- Adjustable Voice

www.readplease.com
Text-to-Speech

• Read and Write Gold
  – www.texthelp.com
• Premier
  – www.premier-programming.com
Digital Text

• Gutenberg Project- over 17,000 titles
  www.gutenberg.org

• The Online Books Page- over 24,000 titles
  http://onlinebooks.library.upenn.edu

• Once we have the Digital Text - Integrate into applications
Library Books

• Lawrence Public Library
  – www.lawrence.lib.ks.us/

• State Library of Kansas
  – kansas.lib.overdrive.com
Writing

Universal Design for Learning
Inspiration

• Inspiration supports improved achievement for students grade 6 to adult.
• Inspiration strengthens critical thinking, comprehension and writing across the curriculum, in language arts, science, social studies and anytime your students need to structure research or other thought processes.

Brainstorming
Webbing
Diagramming
Planning
Critical thinking
Concept mapping
Organizing
Outlining
Kidspiration

- Similar to Inspiration, Kidspiration begins to introduce and then strengthen critical thinking, comprehension and writing across the curriculum, in language arts, science, and social studies.
Write: Outloud

- Improves content & quality
- Acquire mechanics & conventions skills
- Oversee development, monitor progress, & target skill development
- Progress Monitoring - Analyze word count, sentence structure, number of sentences and vocabulary
Co: Writer

- Word Window integrates with any text application, moving along seamlessly as students write.
- Word choices appear Always or only As Needed
- Word Wall stimulates ideas and generates words related to a topic as students compose and revise
Kidspiration - Online

- Visual Learning - techniques, example diagrams, standards matches
- Professional development - workshops, training, interactive demonstration
- Templates - curriculum specific
  - Global Classroom Templates
Hand Helds

• AlphaSmarts
  – Writing
  – Organization
  – Memory
• Dana
• NEO

http://www.alphasmart.com
Hand Helds

• PDAs
  – Organization
  – Writing
  – Reading
  – Access
    – http://www.palm.com/us/software/
    – http://students.olatheschools.com/palmresources
    – http://www.ablelinktech.com/