

# Technology and Teacher Education:

## Integrating Assistive/Instructional Technologies Across Teacher Education

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<http://www.pt3.org/>

# Online Learning

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- iChat for Video Interaction
  - [www.apple.com](http://www.apple.com)
  - [www.aim.com/](http://www.aim.com/)
- Internet Video Conferencing
  - [www.polycom.com/home/](http://www.polycom.com/home/)
- Marratech
  - [emeeting.kan-ed.org](http://emeeting.kan-ed.org)

# Online Learning

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- PodCasting
  - [audacity.sourceforge.net](http://audacity.sourceforge.net)
- BlackBoard
  - [courseware.ku.edu](http://courseware.ku.edu)
- Building Context
  - Apple's iMovie
  - Microsoft's MovieMaker
  - United Streaming
    - <http://www.unitedstreaming.com/>

# AT Integration Thoughts

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- 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

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- [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.

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- 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.

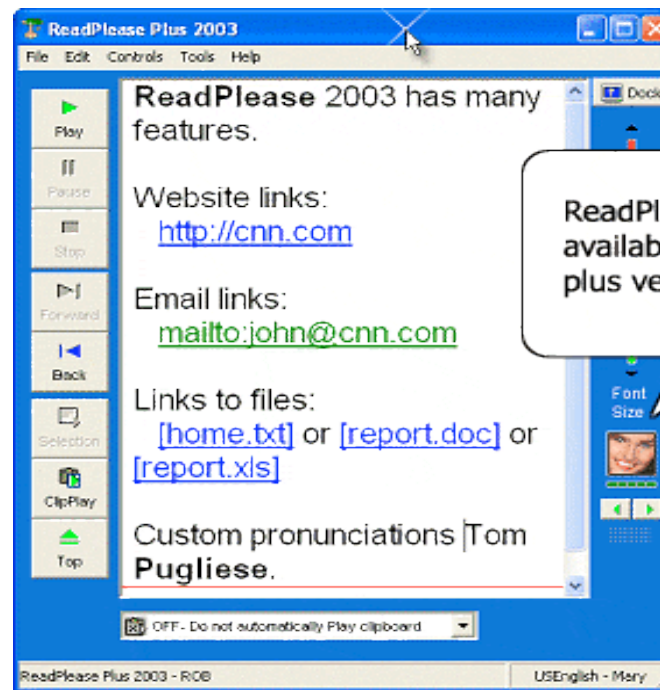
<http://www.brainpopjr.com>

# 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](http://www.readplease.com)

# Text-to-Speech

- Read and Write Gold
  - [www.texthelp.com](http://www.texthelp.com)
- Premier
  - [www.premier-programming.com](http://www.premier-programming.com)



# Digital Text

- Gutenberg Project- over 17,000 titles  
[www.gutenberg.org](http://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

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- Lawrence Public Library
  - [www.lawrence.lib.ks.us/](http://www.lawrence.lib.ks.us/)
- State Library of Kansas
  - [kansas.lib.overdrive.com](http://kansas.lib.overdrive.com)

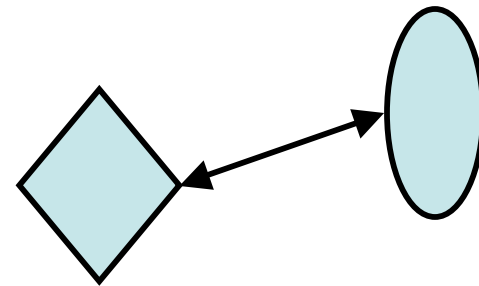
# Writing

Universal Design for Learning

# Inspiration

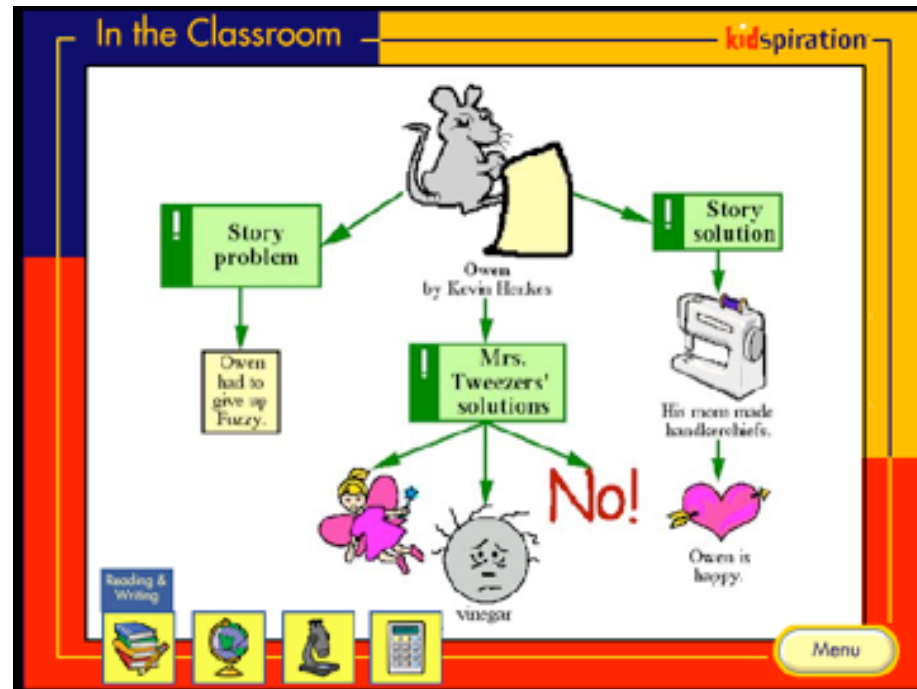
- Inspiration supports improved achievement for students grade 6 to adult.
- Inspiration strengthens critical thinking, comprehension and writing across the curriculum, in language arts, science, social studies and anytime your students need to structure research or other thought processes.

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

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- 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/>