Using IT and AT to Support UDL

Lorraine Edwards
Assistive Technology Specialist
Cobb County School District

Angela Joines
Assistive Technology Specialist
Cobb County School District

Helen Upshaw
Coordinator, Assistive Technology
Cobb County School District
Universal Design for Learning (UDL)

- **Multiple means of representation** to give learners various ways of acquiring information and knowledge
- **Multiple means of action and expression** to provide learners alternatives for demonstrating what they know, and
- **Multiple means of engagement** to tap into learners' interests, challenge them appropriately, and motivate them to learn

Supportive Aids are considered in each student’s IEP
What is accessibility?

Accessibility features

Assistive technology

Compatibility
Types of impairments/disabilities

- Vision
- Learning
- Mobility and dexterity
- Hearing and deafness
- Language and speech
Accessibility in Windows

Windows 7

Personalization
- Display
- Change colors
- Sounds
- Mouse pointers

Ease of Access Center
- Get recommendations
- Narrator
- Magnifier
- Zoom in Internet Explorer
- On-Screen Keyboard
- Speech Recognition
- Windows Touch

Windows Vista

Personalization
- Display
- Change colors
- Sounds
- Mouse pointers

Ease of Access Center
- Get recommendations
- Narrator
- Magnifier
- Zoom in Internet Explorer
- On-Screen Keyboard
- Speech Recognition
Control Panel

Adjust your computer's settings

- System and Security
  - Review your computer's status
  - Back up your computer
  - Find and fix problems

- Network and Internet
  - View network status and tasks
  - Choose homegroup and sharing options

- Hardware and Sound
  - View devices and printers
  - Add a device
  - Connect to a projector
  - Adjust commonly used mobility settings

- Programs
  - Uninstall a program
  - Get programs

- User Accounts
  - Change account type

- Appearance and Personalization
  - Change the theme
  - Change desktop background
  - Adjust screen resolution

- Clock, Language, and Region
  - Change keyboards or other input methods
  - Change display language

- Ease of Access
  - Let Windows suggest settings
  - Optimize visual display
Control Panel: Appearance & Personalization
Personalization

Change the visuals and sounds on your computer

Click a theme to change the desktop background, window color, sounds, and screen saver all at once.

Basic and High Contrast Themes (6)

- Windows 7 Basic
- Windows Classic
- High Contrast #1
- High Contrast #2
- High Contrast Block
- High Contrast White

See also:
- Display
- Taskbar and Start Menu
- Ease of Access Center

Desktop Background: Slide Show
Window Color: Custom
Sounds: Sonata
Screen Saver: Blank
Control Panel: Ease of Access Center

Centralized location to find accessibility options

Quick start
- Magnifier
- On-Screen Keyboard
- Narrator
- High Contrast

Questionnaire to “get recommendations”

Explore settings by categories
Magnifier in Windows 7

Magnifier enlarges portions of the screen making it easier to view text and images and see the whole screen more easily.

Magnifier in Windows 7 now includes full-screen mode, lens mode, and docked mode.
Try it out: Personalization & Ease of Access Center

Try it out:
• Make your screen High Contrast
• Make mouse pointers larger
• Use questionnaire to “get recommendations”

Make your computer easier to use
Personalize your computer

Find out more: tutorials
Try it out: Magnifier

Try it out:
• Use Magnifier to enlarge a portion of the screen

How to make things on the screen bigger and easier to see

Find out more: demo
Try it out: On-Screen Keyboard

Try it out:
• Open Notepad then start On-Screen Keyboard and try typing the date

Type using On-Screen Keyboard
Find out more: demo
Internet Explorer: Zoom

Zoom in on a webpage
• To enlarge the view of a webpage. Unlike changing font size, zoom enlarges or reduces everything on the page, including text and images.
Internet Explorer: Change text size

Make webpages easier to read by changing text size on webpages.
Accessibility in Office

Accessibility features in Office 2010

- **Accessibility Checker**
- Add captions, subtitles, and audio in slides with Sub-Titling Add-in for Microsoft PowerPoint (STAMP)
- Use the Save as DAISY add-in for Word to convert files to an accessible format
- Create accessible web portals
- Use the Speak text-to-speech feature
- Customize the ribbon
- Use the keyboard to work with ribbon programs
- Create accessible PDFs
- Use Full Screen Reading view
Apple Product Accessibility Features

iPad 2

• Voice Over - hear a spoken description of what is onscreen
• Zoom
• Calendar
• Speak Auto Text
• Audio Alerts
• Face time
• Closed Captioning (available on movies through iTunes)
• Gestures
• Camera: video and/or photos
• iPhoto
• Triple click home button
Apple Product Accessibility Features
Mac OS X

- Voice Over
- Zoom
- Calculator (speaking and tape for calculations)
- Screen reader
- Text to Speech
- Word Completion (after typing a few characters press escape key opens a menu of words to choose)
- Finder
- iCal- Calendar
- Grapher
- iChat
- Closed Captioning
- Gestures on the trackpad
- Braille displays supported right out of the box..
Resources

• http://www.apple.com/education/resources/
• http://www.cast.org/
• http://www.dell-at.com/dellat/
• http://www.microsoft.com/enable/
• www.daisy.org