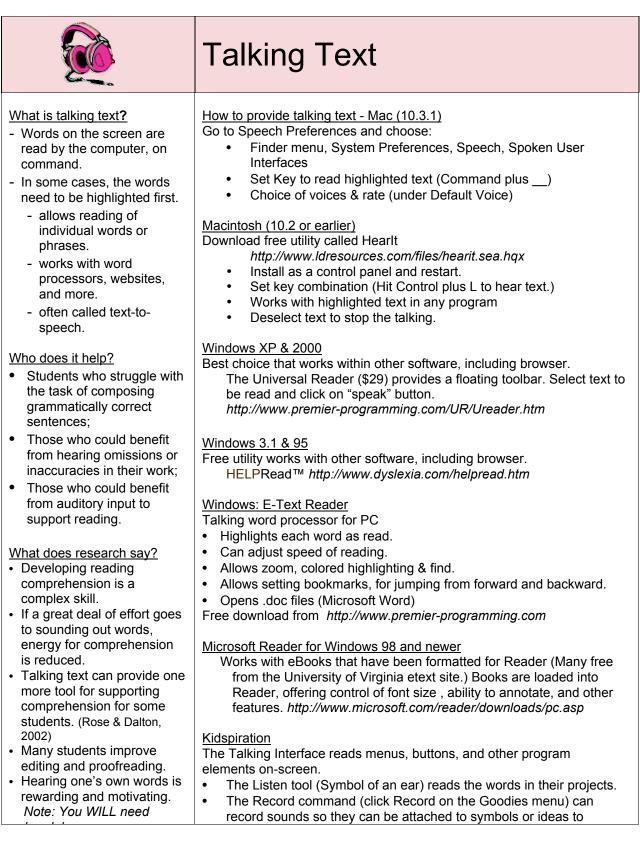
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Current Tips: Talking Text	 Technology Tips is a web site, a PowerPoint presentation, and/or hands-on staff development, customized for individual sites or districts. It's focused on technologies most schools already have for use in professional development of technology for general and special educators, and staff Differentiated Instruction is a model of instruction that revolves around the belief that
Digital Text	students learn in many different ways." (Verde, 2004)
Word Features	 It means providing materials and tasks at varied levels of difficulty with varying degrees of scaffolding, through multiple instructional groups, and encouraging student success by varying ways in which students work: alone or collaboratively, in auditory or visual modes, or through practical or creative means. (Tomlinson, 2000)
	Why differentiate instruction?
Enhanced Text	 Because not all children learn in the same way. Because NCLB says all children need to become proficient. Because research and practice demonstrate that differentiated instruction techniques are effective. Because we can maximize student's growth by meeting each student where he or she is and helping them progress. Because of the diversity of students found in today's classrooms. (ELL, disabilities, cultural backgrounds, etc.)
Graphic Organizers	 Technology can help you tailor instruction to meet the needs of all students by allowing changes to: content channels of input, and means of output. Technology is also an excellent platform for cooperative learning.

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Talking Text continued

headphones.

Benefits of talking text

- Talking text allows a student to select individual words that they may be having problems with and can support reading at a higher level.
- Emerging writers experience the connection between the spoken and written word from the writing perspective.

Thinking of Your Students...

- Who would benefit from highlighting individual words and hearing them read? Or from hearing the definition of the word read?
- Who would benefit from hearing an entire selection or article on a website read aloud?
- Who would enjoy hearing their own words read by the computer?

Example of Use

2nd graders are using the computer to conduct research on dinosaurs. They use the text-to-speech function to hear the short passages read aloud.

Students that benefit from talking text may gain access to a larger world of text though electronic books, documents, magazines, and newspapers. See the Technology Tip on Digital Text.

More examples at: www.westedrtec.org/techtips

expand and reinforce learning. This allows a teacher to record instructions for students to use in an activity.

<u>KidPix</u>

Make selections under the Speech Menu

- Read Text Aloud
 - Reads text entered with the keyboard, using typewriter key
 - Text boxes will be read in order, top to bottom
- Pick a Voice
 - Dialog box with choice of voices
 - Preview to hear how each sounds
 - Click OK to select a voice

AppleWorks (Mac)

- Open a Word Processing document.
- Highlight text and click "lips" or "text to speech" icon in the button bar.
- If there is no "talking" icon in the tool bar:
 - Open Preferences, Available buttons, Word Processing
 - Drag "lips" into button bar, click "done".

AppleWorks (Windows)

Similar to Mac but if there is no "talking" icon in the tool bar, do this:

- Press the button with a triangle in the top left of the tool bar.
- Select Default and Visible at Start Up.
- Press the triangle button again and select Edit Button Bar.
- Select Default and Modify. From the pulldown menu, Button Categories, select Word Processing.
- Select Speak Text, a dialogue box will explain the function.
- Select Add, OK and Done.

This causes the Plain Talk button to show up on your tool bar. Voice settings may be changed through the Speech Control Panel

StoryBook Reader Deluxe

Look for Speech under Goodies

Commercial products - Not free but can be worth the expense.

- Write OutLoud (\$99 or less) Free 30 day trial for teachers.
- IntelliTalk (\$140 or less) Download a free 45 day trial version of IntelliTalk3 to experience a full-featured talking word processor. http://www.intellitools.com
- CAST eReader (\$229 or less)

These all include the following features :

- · highlight sentence and word within sentence as it is read
- allow reading by letter, word, or sentence
- allow correction of pronunciation
- have other helpful features, e.g. talking dictionary

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	Digital Text
 What is digital text? Text stored as strings of characters. If you can select and change the font of text on the computer screen, it's electronic text. Many books and historical documents have been converted to digital format, for access via computer. New writing is being done to take advantage of hyperlinking and multi- media. Who does it help? Those who have trouble reading standard print from books Those who need additional information or supports placed immediately near the relevant text. Those who could benefit manipulating or interacting with the text. Why use digital text? Visual display can be varied Auditory display - good for pre-reading Allows embedding learning supports in content Pre-reading background, definitions Summary Key questions Allows students to 	Free books online - Digital Book Libraries (over 90 sites listed) http://www.ditext.com/etexts.html - Internet Public Library http://promo.net/pg/ - Vroject Gutenberg http://promo.net/pg/ - University of Virginia's e-Book Library http://etext.lib.virginia.edu/ebooks/ebooklist.html - American Memory at http://memory.loc.gov/ - Alex, (Literature & philosophy) http://www.infomotions.com/alex/ - The Oxford Text Archive catalog, http://ota.ahds.ac.uk/ - Project Bartleby has many reference books, poetry texts, and historical editions. http://www.bartleby.com/ Examples of free digital text by author Dickens Robert Frost Mark Twain Adar K Twain Edgar Rice Burroughs Jack London Ruyard Kipling Jane Austin Beatrix Potter Examples of free digital text by title Declaration of Independence Bulfinch's Mythology Bartlett's Quotations Tom Sawyer Alice in Wonderland Wizard of Oz The Tell-Tale Heart Oliver Twist Little Women See magazine examples at www.westedrtec.org/techtips Almost free books online Benetech's BookShare, http://www.bookshare.org Over 12,000 titles of books still in copyright. • Individual subscriptions enable "all-you-can-read"* access to books in easy-to-use digital formats for a full year. Subscriptions cost \$50 plus a \$25 sign-up fee the
copy/paste, or otherwise manipulate the text.	first year.School subscriptions also available at \$300 for 30 books.

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	Word Features
 There are some great features to Microsoft Word that support differentiation strategies. These include: Computer-generated summaries can identify essential content for students to pre-read Highlight text can focus on key words, themes, characterizations, main ideas Changing how the text looks on the screen allows user preference for font: type, size, and color. Adjusting the grammar checker allows the teacher to reduce frustration for students or target specific errors Determining the readability of text tells you the grade level for any document. How are they used? Auto-Summarize Pre-reading for meaning Post-reading to self-test or summarize Highlighting Text Adding color to text increases the odds that the information will be stored in long-term memory and more readily precalled. Generally speaking, when emerging readers read, they skip over words they don't understand. Highlighting such words as they read cues them to go back later and decipher the meaning of the selection. Changing the text display helps students who are having difficulty reading standard text on the screen. Grammar checking can be made more appropriate to the task or grade level by checking off individual features, among the 26 options. Readability can be used with electronic text to determine	 How to Auto-Summarize Under Tools, choose Auto-Summarize Dialog Box gives choices on: % or size of summary Method: highlight, summary on top, etc. How to do highlighting Select text. Select highlighter in formatting palette. How to change the display in Word Preferences, General: blue background with white text Font: Serif or sans-serif, size, and color How to modify the Grammar Checker Preferences, Spelling and Grammar, Grammar, Writing Style: Customize grammar checking Casual, Formal, or Custom: 26 settings such as capitalization, contractions, passive voice, run-on sentence, etc. How to Get Readability Statistics Under Tools, choose Spelling, Spelling and Grammar Dialog box: Options button
grade level, or when simplifying text.	Grammar: Show Readability Statistics

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	Enhanced Text
 What is enhanced text? Think of the modern textbook. A chapter on a historical period might include: a timeline, a photograph, a reproduction of art featuring an important historical figure, a graphic of a historical document, and questions for reflection. A related reader's guide for English learners might include definitions of difficult words, cultural context, and explanations of resources into an electronic document or website, and you have the textbook of the future. Today we can find an increasing number of sources with Added information, questions, links, graphics, or videos to enhance comprehension Audio versions, in a variety of formats, that can accompany text. Who does it help? Students who find reading challenging Students who come from diverse cultures National Reading Panel research Techniques to enhance comprehension include: questions that allow self-monitoring for understanding, using graphic and semantic organizers, student-generated questions about the text, becoming aware of story structure, and periodically summarizing key points. 	Strategies for enhancing text Preview: background summary visual summary visual summary vocabulary Reading strategies questions about content breaking down complex sentences making predictions Review and assess compare and contrast story mapping Literary analysis plot, mood, theme, style, point of view Enhanced text: Sources The Intersect Digital Library Catalog http://intersect.uoregon.edu/ The Diary of Opal Whiteley The Diary of Opal Whiteley The Diary of Juan Bautista de Anza Your Genes, Your Choices: Cloning On the Run An American History Sourcebook Spark Notes http://www.sparknotes.com Example: Harry Potter and the Chamber of Secrets Prentice Hall Literature website for Timeless Voices, Timeless Themes at http://www.phschool.com/atschool/literature

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	Portable Word Processors
 What are portable word processors? Sturdy, lightweight units such as the AlphaSmart, DreamWriter, Palm Pilot, or Laser PC6 Why use portable word processors? Typing is easier than writing for some students Writing can be imported into other programs, for editing, enhancing, etc. Supports lesson plans that encourage cooperative learning Highly transportable Who does it help? Students who struggle with paper and pencil Students who are motivated by technology 	 <u>Ideas for using portable word processors</u> <i>Pass It On:</i> Each student writes 1-2 lines of a story and then passes it on to another student, who adds another line. Can be done with a single device. If done with 3-4 students per word processor, divide into small groups and allow students to edit the stories, or edit as a whole group activity. Houghton Mifflin Sentence Elaboration: Students are given a "seed" such as "The boat sank" or "My rabbit is nice" so that they can nurture and grow a completely mature sentence. Students can work alone or in groups, adding when,where, why, and creating a picture with words.
 <u>What does research say</u>? Students' interest in writing is increased using computers, E-mates, AlphaSmarts, etc. Writing on computer has a positive effect on the quality of student writing. The biggest impact is for: students with learning disabilities. students in early elementary grades. <u>Bonus Feature: AlphaSmart with Co:Writer</u> Word prediction is an option on the AlphaSmart 3000: From the first letters students type, Co:Writer SmartApplet generates possibilities for the words they want. Words are based on spelling, grammar rules, context clues and vocabulary. This feature includes access to over 70 topic dictionaries which give fast access to very specific words and phrases about holidays, history, science, literature, and geography. See 	 <i>Fieldtrip Record:</i> Students or adults take notes on 3-4 word processors, of what the group saw, did, and learned. Students can refer to these notes in writing up their experience. Read the Room: Give each student a portable word processor. Ask them to walk around the room and type each word they see in the room that they can read. They may read any words from the walls, on boxes, from clothing, or from any other environmental print. Print their lists (or have students do this) with their names and the date. This provides the teacher with an ongoing assessment of their word recognition throughout the year. More lesson plans for portable word processors can be found in <i>Getting the Most Out of Your AlphaSmarts</i>, by Janet Levenson (2003) http://shop.augcominc.com/osb/itemdetails.cfm/ID/254

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	Graphic Organizers
 What are graphic organizers? <i>"…a visual representation of concepts, knowledge, or information that can incorporate both text and pictures."</i> Graphic organizers are particularly suited to: generating ideas (brain-storming, etc.) organizing & displaying information aiding learning by explicitly integrating new and old knowledge assessing understanding or diagnosing misunderstanding increasing recall designing a complex structure (long texts, large web sites, etc.) incorporating both images and text 	Types of graphic organizers• Webs• Concept maps• Matrices• Flow charts• Venn diagrams• Time lines• Compare/contrast• KWHL chartSoftwareKidPix, Inspiration/Kidspiration, OmniGraffle, Microsoft Word, AppleWorks
 Who do they help? Students who benefit from seeing relationships between information Students who enjoy an interactive process What does the research say? Direct teaching of the thinking strategies involved in graphic organizers leads students to use them independently. (Skruggs, 1985) Use of graphic organizers in pre-reading helps students relate new information to their existing knowledge. (Novak & Gowin, 1984) "Graphic organizers are valuable instructional tools. Unlike many tools that just have one purpose, graphic organizers are flexible and endless in application. One common trait found among graphic organizers is that they show the order and completeness of a student's thought process - strengths and weaknesses of understanding become clearly evident. Many graphic organizers use short words or phrases, they are ideal for many types of learners, including English Language Learners with intermediate proficiency." <i>WriteDesign</i>: http://www.writedesignonline.com/organizers/ 	 <u>Web Resources</u> 1. Teachnology online GO generator: www.teachnology.com/web_t ools/graphic_org/ 2. SCORE Language Arts: http://www.sdcoe.k12.ca.us/s core/actbank/torganiz.htm 3. Index of graphic organizers: http://www.graphic.org/goinde x.html 4. PDF and HTML forms: http://www.ocde.k12.ca.us/cta pread/5000.html