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Assistive Technology Decision-Making in Literacy

- SETT Framework (Zabala)
 - "A guideline for gathering data in order to make effective assistive technology decisions. The SETT Framework considers first, the STUDENT, the ENVIRONMENT(S) and the TASKS required for active participation in the activities of the environment, and finally, the system of TOOLS needed for the student to address the tasks."
- Favor tools that promote continued learning rather than merely supporting participation.

Word Language Comprehension Print Processing Beyond Word Identification

The Assessment Process

- Complete a Whole-to-Part Reading Assessment using an informal reading inventory
 - Students:
 - read words individually
 - read passages silently and respond to open-ended questions presented orally WITHOUT looking back a the passage
 - listen while an adult reads a passage and respond to open-ended questions presented orally.

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Whole-to-Part Reading Assessment • Step 1: Assess Word Identification • Step 2: Assess Listening Comprehension • Step 3: Assess Silent Reading Comprehension	
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Assessing Word Identification	
Automatic Word Identification (Flash): Assessed using words from graded word lists printed on index cards. Words are flashed for less than 1/3 of a second.	
 1 point for each word read when flashed. Mediated Word Identification (Analysis): Assessed using words that were not read accurately in 	-
the flash mode. - Students can look at word for 3-5 seconds. - 1/2 point for each word read with analysis. • 17 point total to go on to next level.	
17 point total to go on to next level.	
Listening Comprehension	
Assess using graded passages from the Informal Reading Inventory.	
Read the passage aloud to the student. Read it one time, beginning to end. Read to be time, beginning to end. Read to be time, beginning to end.	
 Do you best "teacher read aloud" - good prosody & speed Do not allow the student to follow along or otherwise see the text. Ask the student questions orally and write down oral responses Go up and down levels until you reach the highest level at 	
which student is 80% accurate with questions.	

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Silent Reading Comprehension

- Assess using graded passages from the Informal Reading Inventory.
- · Ask student to read the passage "to yourself."
- Take the passage away from the student when finished reading.
- Ask the student questions orally and write down oral responses.
- Go up and down levels until you reach the highest level at which student is 80% accurate with questions.

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What is preventing D'Maggio from reading silently with comprehension 1 grade level higher?

	Word	Listening	Silent Reading
	Identification	Comprehension	Comprehension
Fall	Primer	Pre-Primer	Pre-Primer

Solone

What is preventing Solone from reading silently with comprehension 1 grade level higher?

	Word Identification	Listening Comprehension	Silent Reading Comprehension
Fall	6	4	3

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What is preventing Daniel from reading silently with comprehension 1 grade level higher?

	Word	Listening	Silent Reading
	Identification	Comprehension	Comprehension
Fall	Primer	1	1

Filiberto

What is preventing Filiberto from reading silently with comprehension 1 grade level higher?

	Word	Listening	Silent Reading
	Identification	Comprehension	Comprehension
Fall	1	7	2

Profile 1

 What is preventing students with this profile from reading silently with comprehension one level higher?

	Word Identification	Listening Comprehension	Silent Reading Comprehension
Fall	3	3	1

Print Processing as an Area of Instructional Need	
 What does the reading instruction need to address? Fluent reading with prosody. Improved control over eye-movements. Wide silent reading of easy texts. 	
- Wide silent reading of easy texts.	
NAEP's Integrated Reading Performance Record Oral Reading Fluency Scale	
Level 4 - Reads primarily in large, meaningful phrase groups. Although some regressions, repetitions, and deviations from text may be present, these do not appear to detract from the overall structure of the story. Preservation of the author's syntax is consistent. Some or most of the story is read with expressive interpretation.	
Level 3 - Reads primarily in three- or four-word phrase groups. Some smaller groupings may be present. However, the majority of phrasing seems appropriate and preserves the syntax of the author. Little or no expressive interpretation is present.	
Level 2 - Reads primarily in two-word phrases with some three- or four-word groupings. Some word-by-word reading may be present. Word groupings may seem awkward and unrelated to larger context of sentence or passage.	
Level 1 - Reads primarily word-by-word. Occasional two- or three-word phrases may occur – but these are infrequent and/or they do not preserve meaningful syntax.	
 Note. From Listening to Children Read Aloud (p. 15), by U.S. Department of Education, National Center for Education Statistics, 1995, Washington, D.C. Author. Available at http://nces.ed.gov/pubs/95/web/95762.asp 	
Typical Words Per Minute Criteria for 50th Percentile in Spring	
1st grade (2nd half) - 53 wpm	
• 2nd grade - 89 wpm	
 3rd grade - 107 wpm 4th grade - 123 wpm	
• 5th grade - 139 wpm	
6th grade and higher - 150 wpm	
Hasbrouck, J. & Tindal, G. A. (2006). Oral reading fluency norms: A valuable tool for reading teachers. The Reading Teacher. 59(7), 636-644.	

Strategies that Address Fluent Reading with Prosody: Independent Reading • Wide access to easy to read texts • Making difficult books more accessible - Let the children choose their books and interact - Read the difficult books aloud to them - Partner the children based on levels - Provide opportunities as difficult material gets easier each time it is read - Use easier books to build background knowledge	
Strategies that Address Fluent Reading with Prosody: Independent Reading	
 Make easy books more acceptable Model the use of easy books Have older children read these books to younger buddies 	
 Allow children to make MP3 recordings of books for younger grades Make nonfiction books readily available 	
Strategies that Address Fluent Reading with Prosody: Daily Writing	
 Writing promotes fluency in reading Lots of writing helps children become better decoders and spellers Invented spelling is important but not for high frequency words Establish a daily writing time 	

Strategies that Address Fluent Reading with Prosody: Echo and Choral Reading • Echo Reading - Usually one sentence at a time - Short, easy text which has only one sentence on a page - Fun to do with different voices - Maybe do it with plays • Choral Reading - Everyone reads together	
Ctrotopics that Address Fluent Deading with	
Strategies that Address Fluent Reading with Prosody: Repeated Reading/Listening	
 Reading along with an auditory version of a passage Allow the student to read and listen to the selection at school and/or home Find a selection that is not too long or difficult 	
Practice until the student can read the passage fluently without the model	
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Strategies that Address Fluent Reading with Prosody: Readers' Theater	
The oral presentation of drama, prose, or poetry by two or more readers Lines are read NOT memorized	
Select an appropriate text ot work with students to write one	
Students first read the entire text silently or via choral reading then choose their parts	
(Vacca, Vacca, Gove, Burkey, Lenhart, McKeon, 2003)	

Strategies that Addres with Prosody: Two		
Voice 1 (Little Brother) I am the little brother.	Voice 2 (Big Sister) I am the older sister.	
Playing with toys is what I do best.	Talking on the phone is what I do best.	
Mom yells at you much more than r	ne!	
When I am your age,	When I was your age,	
I will earn much better grades than you.	School was so much harder than it is now.	
Mom loves me mo than you!	re	
What materials will		
 Song lyrics: www.lyric Short, easy texts Short stories and boo multiple times Teacher made texts Texts made up of pre frequency words http://tarheelread 	ks that can be read	
		1
Assistive Technolo		
for Students wh Processing as a Re		
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 High quality digitized rea synthesized. 	ding models not	
No word-by-word highlig		
word processors & scree • Large selection of easy-t		
reading.		

ClozePro: A Proxy for Oral Reading Fluency You select: Pyramids of Ancient Egypt A pyramid was a stone tomb. When the died, the people put his dead and his inside a pyramid. They believed that he pharaoh would need his body in the next. It took over 20 to build a so as soon as a 1. Number of choices 2. Frequency of blanks 3. Number of sentences to leave intact 4. Type of words for choices	
Co:Writer to Support Daily Writing • Use Predict Ahead – Support correct use of homophones • Use Sentence Window – Encourage selecting words from list	
High Quality Recorded Texts • Need digitized speech to provide appropriate model of prosody. – Start-to-Finish® libraries – Record fluent readings texts	

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Profile 2

 What is preventing students with this profile from reading silently with comprehension one level higher?

	Word	Listening	Silent Reading
	Identification	Comprehension	Comprehension
Fall	2	2	2

Language Comprehension as an Area of Instructional Need

- · What do they need?
 - Improved vocabulary.
 - Improved receptive language/knowledge of the world.
 - Explicit instruction to help link new information to known.
 - Access to a broad range of texts and text types.
 - Explicit instruction to improve understanding of the relationship between questions and answers in reading.

Connections, not Definitions

wa·ter / wɔtər, wɒtər/ -noun

- a transparent, odorless, tasteless liquid, a compound of hydrogen and oxygen, H2O, freezing at 32°F or 0°C and boiling at 212°F or 100°C, that in a more or less impure state constitutes rain, oceans, lakes, rivers, etc.: it contains 11.188 percent hydrogen and 88.812 percent oxygen, by weight.
- 2. a special form or variety of this liquid, as rain.

www.med.unc.edu/ahs/clds

Before, During and After	
Comprehension Lessons	
1. Before	
Build or activate background knowledge (includes personal connection-making)	
b) Set a clear purpose for Reading/Listening (can reflect text structure, task structure and/or content)	-
During a) Reading/listening for bulk of allocated time	
After	
a) Complete a task directly related to the stated purpose b) Follow-up and feedback	
, ,	
Reading or Listening Comprehension:	
Not in This House	
Before Reading Teacher provides examples of some rules at home.	
Finish dinner before dessert. Make bed first thing in the morning.	
- Think, pair, share	
Think: Students think about the rules in their own homes.Pair: Students work with a partner about their rules.	
 Share: Teacher works with whole group to record the rules they describe on chart paper. 	
Durnoo:	
Purpose:	
The teacher tells the students:	
"Listen while I read so that you can tell me	
which of the rules on our list are rules the boy in this story must follow."	

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After Reading

- Remember, you were listening while I read so that you can tell me which of the rules on our list are rules the boy in this story must follow.
- Read each rule on the list and decide which ones were rules the boy had to follow.
- Follow-up by going back to the book to check student responses on the list whether they were right or wrong.

Directed Reading-Thinking Activity (DR-TA) (Stauffer)

- Students look at title or pictures and PREDICT story
- Students READ to a predetermined stopping place
- Students PROVE the accuracy of their predictions and modify or make new predictions

Question-Answer-Relationships QAR (Raphael)

- Introduce the 2 categories: "In the Book" and "In My Head"
- Define 4 types of questions:
 - In the Book QARS
 - Right There: The answer is easy to find in the text.
 - Think and Search: The answer is in the text, but you have to put together different parts.
 - In My Head QARS
 - <u>Author and You</u>: The answer is not in story. Readers need to think about what they already know, what the author tells them. and how it fits together.
 - On My Own: The answer is not in story. Readers can answer without reading the story based on own experiences.

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Jack and Jill Example	
Jack and Jill went up the hill to fetch a pail of water. Jack fell down and broke his crown. Jill came tumbling after.	
•Who went up the hill? (Right There) •What happened after Jack broke his crown? (Think and Search) •Why do you think Jack fell down? (Author and You) •Have you ever had to walk a long way to get something like water? (On Your Own)	
Assistive Technology Implications for	
Students with Language Comprehension as a Relative	
Weakness Carefully selected texts for screen readers.	
 Vocabulary supports beyond definitions. Anchored instruction (e.g., video & other multimedia sources) with release of responsibility over time. 	
 Graphic organizing and planning tools to support reading and writing. 	
Carefully selected texts for screen readers & digitized texts	
Readers & listeners must know at least 95% of the words they encounter in text	
in order for basic comprehension to occur (Hu & Nation, 2000; Laufer, 1989,	
1997; Liu & Nation, 1985; Wixson & Lipson, 1991).	

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Vocabulary supports beyond definitions - Limited access to text for reading and listening has a negative impact on vocabulary development. • School-aged students learn ~3,000 new words each year (Miller & Gildea, 1987; Nagy & Herman, 1987; Nagy, Herman, & Anderson, · After 3rd grade, most of new words are acquired through reading Nagy, 1988; Nagy & Herman, 1987) . · Speech is not a substitute for reading/listening to text because speech does not have the lexical diversity of written language (Stanovich, West, Cunningham, Cipielewski, & Siddiqui, 1996). • Diversity of text types (breadth and depth) is required to maximize vocabulary development (Gardner, 2004). Anchored instruction (e.g., video & other multimedia sources) with release of responsibility over time · Read 180 (Scholastic) • Incite Videos (Don Johnston) · United Streaming Graphic organizing and planning tools to support reading and writing · Difficulty Generating or Understanding the Relationship Among Ideas: - Inspiration - Open-ended mapping software · Difficulty Organizing Ideas: - Draft:Builder - Structured planning software · Difficulty Identifying Important Ideas - Draft:Builder + Read:Outloud

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Profile 3

• What is preventing students with this profile from reading silently with comprehension one level higher?

	Word	Listening	Silent Reading
	Identification	Comprehension	Comprehension
Fall	1.0	6.0	2

Word Identification as an area of instructional need

- · What do they need?
 - Continued access to grade level materials to keep building their relative strength in language comprehension.
 - Explicit word identification instruction most likely not phoneme-by-phoneme, Direct Instruction approaches.
 - Wide access to easy-to-read text to build automaticity.

Adams' Model of Single Word Reading (1990) Context Processor Processor Print Phonological Processor Processor Print Speech

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Visual Word Sorts pick · Visual word sorts emphasize the orthographic fat lick processor. bat sick sat Step 1: Select two key words the student knows that have a common spelling pattern (at - pick) Step 2: Make sure student can read the two key words. Step 3: Show student a word that has the same spelling pattern as one of the key words. Step 4: Ask the student to indicate which key word has the same spelling pattern as the new word. Compare/Contrast the two words. **Auditory Word Sorts** Word sorts begin to engage the phonological processor when students begin to sort words based on the way they sound prior to checking the visual pattern. Step 1: Select two key words the student knows that have a common spelling pattern (at - pick) $\,$ Step 2: Make sure student can read the two key words **Step 3:** Tell the student a word that has the same spelling pattern as one of the key words. Step 4: Ask the student to indicate which key word has the same spelling pattern as the new word. Step 5: Show the student the new word and compare/contrast it with the selected key word to check. **Spelling Word Sorts** Guiding students to use the selected key word to try to spell the words prior to checking the response visually engages the phonological processor even more deeply. Step 1: Select two key words the student knows that have a common spelling pattern (at - pick) pattern (at - pick) Step 2: Make sure student can read the two key words. Step 3: Tell the student a word that has the same spelling pattern as one of the key words. Step 4: Ask the student to indicate which key word has the same spelling pattern as the new word. Step 5: Ask the student to try to use the key word to spell the new word. **Step 6:** Show the student the new word and compare/contrast it with the student's spelling attempt correcting as necessary.

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37 Common Rimes (Wylie & Durrell, 1970)						
ack ail ain ake ale ame ame ine	ap ash at ate aw ay eat ore	est ice ick ide ight ill in	ing ink ip it ock oke op	ot uck ug ump unk ank ell		

AQ after and*	Bb because	CC can*	Dd did	eat	Ff friend	Gg good
Hh have	li in*	Jj	Kk kick	LI like*	Mm make*	Nn nice*
00 out	Pp	Qq quick	Rr rain*	Ss said	made T†	UU
۷v	people	Хх	Yy	<u></u>	they	

The Word Wall

- Typically 5 new words are added each week
 Some teachers in self-contained may find that they can only add 3 each week given the complexity of their students' needs
 For beginning readers, the words include the 37 key words, sight words that can't be decoded (e.g., was), and other words that are personally meaningful to the class (e.g., school mascot)
 Words are placed alphabetically by first letter and remain in the same place throughout the year
- place throughout the year
- Teach the meaning of the words and then spell the words by clapping, chanting and then writing
- Complete daily activities to teach the words and how they can be used to read and spell other words
- Refer to the wall throughout the day to encourage its use

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Some Word Wall Activities 1. Dictate sentences using only Word Wall Words Spell word wall words that share a spelling pattern with the rhyming words "I'm thinking of a word that starts with I and rhymes with hike.' 3. Add Endings To Words add the ending "s" to make rains, then "ed" to make rained, then "ing" to make raining. Play I Spy I am thinking of a word on the wall. It has 4 letters. It is on a yellow card. It rhymes with the word pain. The Compare/Contrast · Give students cards with three or four key words they can already read written on them (e.g., can, make, nice, play). Write a sentence on the board with an underlined word that shares an ending with one of the words the students have on cards. · The task for the students is to identify which word they have would help them read the underlined word. Making Words Name Letters & Sounds S a Making Words sat α Transfer sand∥and sad

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Sorting and Transfer · Sorting - Refocuses students on the words they've made. - Find all the words you made that: (1) have the same beginning sound (2) have # letters (3) share a spelling Transfer - Gets students to use what they've learned to do something they haven't been taught directly. - Use the words you made to help you spell a new word that: (1) starts with the same sound (2) ends with the same sound (3) shares the spelling pattern Guess the Covered Word (Cross-checking) · Write a sentence on the board covering one word with two sticky notes. · Read the sentence and students suggest words that could fill in the blank. Record each of the words · Uncover the initial consonant and modify list accordingly. Add other possibilities. · Take off the 2nd sticky note to see which is the correct Assistive Technology Implications for Students with Word Identification as a Weakness · Alternate access to grade-level text via screen readers.

Single-word reading supports in ability-appropriate texts. Word prediction that supports spelling, builds upon relative strength with language, and can be programmed to address the discrepancy between spelling and

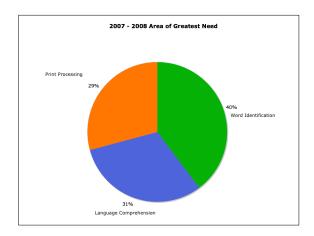
Instructional technologies that complement teacher-

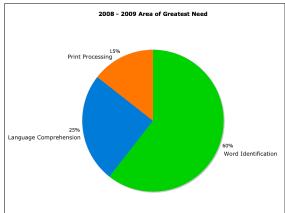
language production.

directed instruction.

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Instructional and AT Decisions May Change Year-to-Year as Students' Reading Profiles Change





60%
Word Identification