

The following presentation by Dr. Joseph K. Torgesen of the Florida Center for Reading Research at Florida State University, Director, Reading K-12, Center on Instruction, was given at the K-3 and Adolescent Literacy Workshop in Boston February 14-15, 2006. This PowerPoint is provided as a resource material by the Center on Instruction.

The Center on Instruction is operated by RMC Research Corporation under cooperative agreement grant S283B050034 with the U.S. Department of Education, and in partnership with the Florida Center for Reading Research at Florida State University, RG Research Group, the Texas Institute for Measurement, Evaluation, and Statistics at the University of Houston; and the Vaughn Gross Center for Reading and Language Arts at the University of Texas at Austin.

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2006

Adolescent Literacy: An overview of skill and knowledge requirements

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K-12 Literacy Seminar for Regional Centers

Adolescent Literacy: The Domain

The term *Adolescent Literacy* can be used to encompass both more than reading, and reading in many and varied forms

"The privileging of one form of literacy (academic literacy) over multiple other forms (e.g. computer, visual, graphic, and scientific literacies) has been criticized for ignoring the fact that different texts and social contexts (reading for whom, with what purpose) require different reading skills."

(Alverman, 2001)

Adolescent Literacy: The Domain

In the present context, we are most concerned about academic literacy.

The kinds of reading abilities that support success in the classroom

The kinds of reading abilities that are assessed on state level accountability measures of reading comprehension

Our purpose is to provide assistance to States that will help them, in turn, establish policies and provide supports that will improve levels of <u>academic</u> <u>literacy</u> in their states.

Adolescent Literacy: The Questions

1. How is adolescent literacy growth different than growth in K-3

2. What are the most important instructional challenges

3. What instructional improvements need to occur in middle and high schools

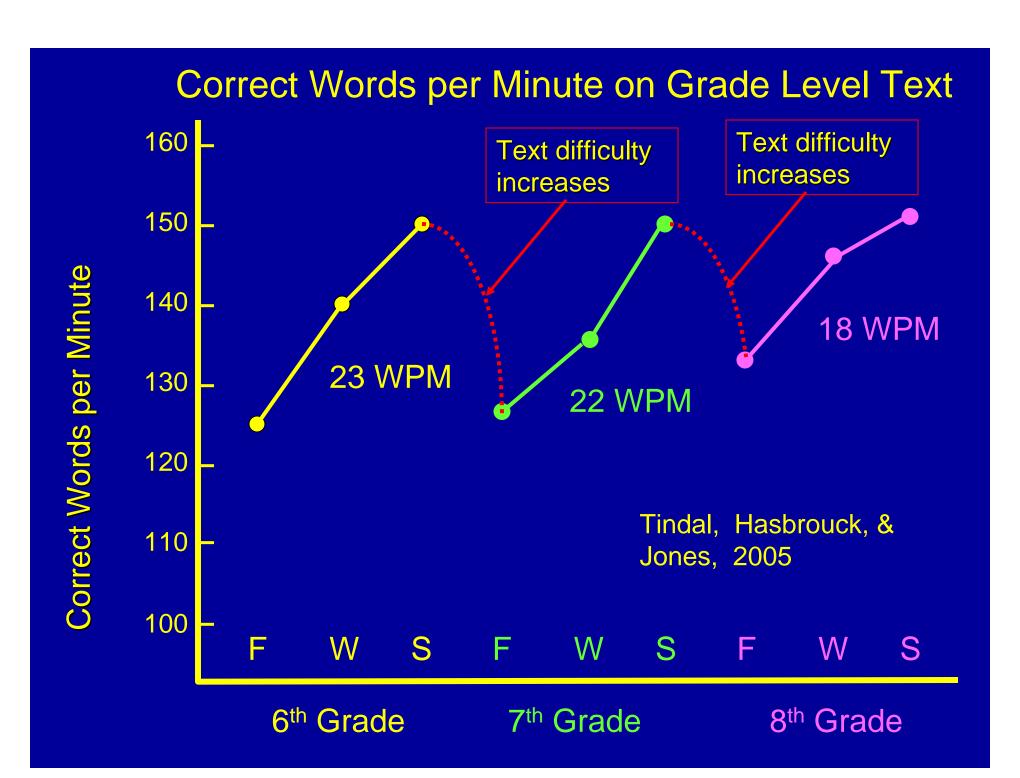
Reading K-3

Acquire strategies for "decoding" unfamiliar words
Build "sight word vocabulary" of many thousands of words
Learn to coordinate skills for fluent reading of text
Begin extension of vocabulary beyond oral language limits
Acquire variety of strategies for enhancing
comprehension, or repairing it when it breaks down

Develop or maintain a positive attitude about reading and view it as an important skill for learning and for pleasure

Reading 4-12

Extend "sight vocabulary" to unfamiliar words in increasingly challenging text



Reading 4-12

Extend "sight vocabulary" to unfamiliar words in increasingly challenging text

Learning meanings of thousands of new words – vocabulary expansion

Why Oral language experience is not enough

Frequency of Word Use in Major Sources of Oral and Written Language (Hayes & Ahrens, 1988)

Rare Words per 1,000

I. Printed texts		II. Television texts	
Newspapers	68.3	Adult shows	22.7
Popular magazines	65.7	Children's shows	20.2
Adult books	52.7		
Children's books	30.9	III. Adult speech	
Preschool books	16.3	College graduates	17.3
		talk with friends/	
		spouses	

Reading 4-12

- Extend "sight vocabulary" to unfamiliar words in increasingly challenging text
- Learning meanings of thousands of new words vocabulary expansion
- Increasingly detailed knowledge of text structures and genres
- Expansion of content knowledge in many domains
- Thinking and reasoning skills increase
- Reading specific comprehension strategies become more complex

Reading 4-12

Extend "sight vocabulary" to unfamiliar words in increasingly challenging text

Learning meanings of thousands of new words – vocabulary expansion

Increasingly detailed knowledge of text structures and genres

Expansion of content knowledge in many domains

Thinking and reasoning skills increase

Reading specific comprehension strategies become more complex

"Ensuring adequate ongoing literacy development for all students in the middle and high school years is a more challenging task than ensuring excellent reading education in the primary grades, for two reasons: first, secondary school literacy skills are more complex, more embedded in subject matters, and more multiply determined; second, adolescents are not as universally motivated to read better or as interested in school-based reading as kindergartners." Biancarosa & Snow, (2005)

Assuming a focus on academic literacy:

How does the contribution of various reading and language/cognitive skills to performance on academic literacy tasks change with development?

An Example: The FCAT test

What reading and language factors are most strongly related to individual variability in performance on the FCAT at grades 3, 7, and 10

What reading and language factors are most deficient in students who perform below grade level on the FCAT?

Changes in the factors that influence reading comprehension from grades 3 to 10: An example from the FCAT

About the FCAT

It was specifically created to examine students increasing abilities to comprehend complex text

It requires students to read relatively long passages before asking them to answer questions.

Passage length at different levels 3rd grade – 325 words 7th grade – 816 words 10th grade – 1008 words

How the study was conducted:

Gave 2 hour battery of language, reading, nonverbal reasoning, and memory tests to approximately 200 children in each grade (3rd, 7th, and 10th) at 3 locations in the state

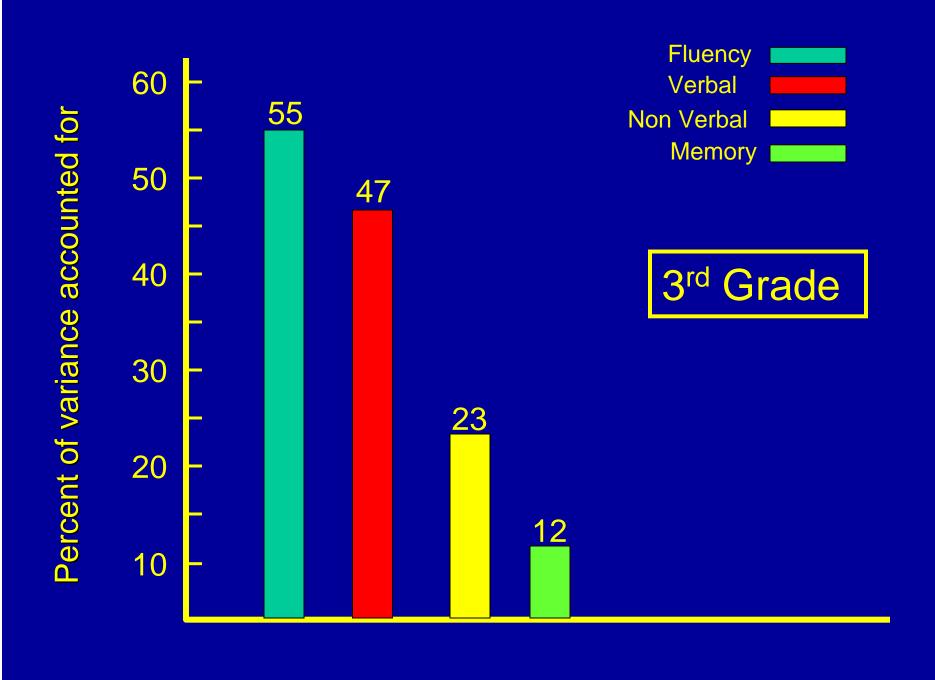
<u>Language</u> – Wisc Vocab and Similarities

Listening comprehension with FCAT passage

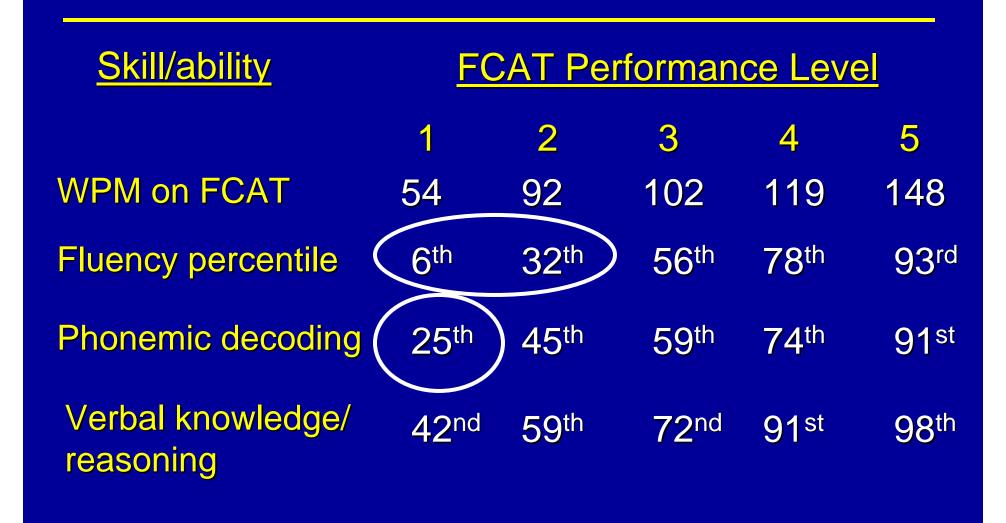
Reading— Oral reading fluency, TOWRE, Gray Oral Reading Test

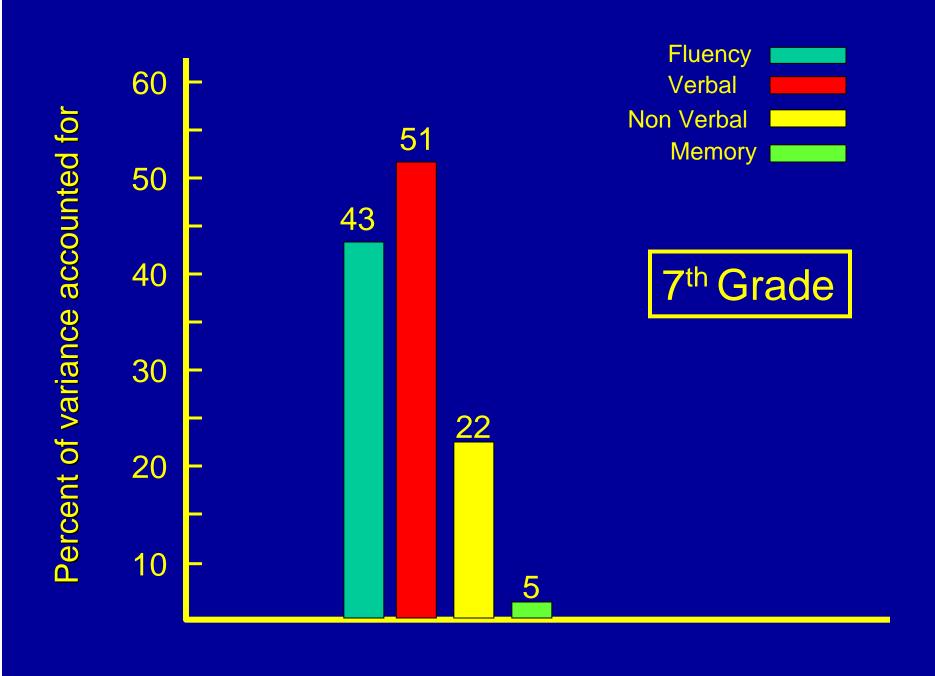
NV Reasoning - Wisc Matrix Reasoning, Block Design

Working Memory - Listening span, Reading Span



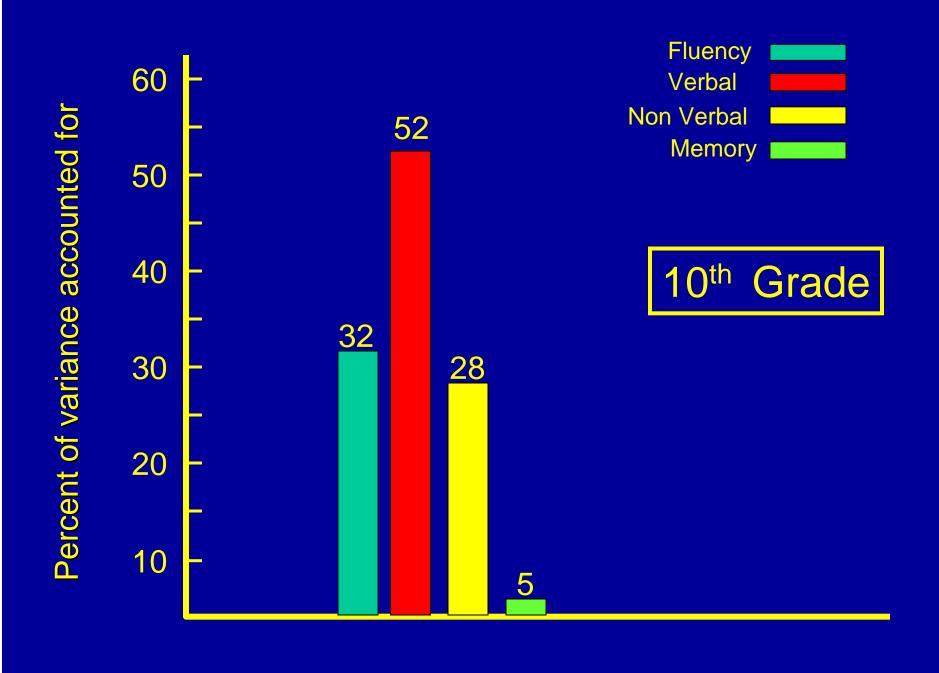
What skills are particularly deficient in level 1 and level 2 readers in 3rd grade?





What skills are particularly deficient in level 1 and level 2 readers at 7th grade?

Skill/ability	FCAT Performance Level				
	1	2	3	4	5
WPM on FCAT	88	113	122	144	156
Fluency percentile	7 th	25 th	45 th	82 th	95 th
Phonemic decoding (27 th	53 rd	53 rd	74 th	84 th
Verbal knowledge/ reasoning	34 th	45 th	64 th	88 th	93 rd



What skills are particularly deficient in level 1 and level 2 readers at 10th grade?

Skill/ability	FCAT Performance Level				
	1	2	3	4	5
WPM on FCAT	130	154	175	184	199
Fluency percentile	8 th	30 th	68 th	87 th	93 rd
Phonemic decoding	18 th	27 th	45 th	56 th	72 nd
Verbal knowledge/ reasoning	30 th	60 th	66 th	84 th	89 th

Two definitions of reading that summarize the findings from the study and identify shifting instructional challenges

"Reading is translating between oral and written language." (Perfetti, 1985)

"Reading is thinking guided by print." (Perfetti, 1985)

Adolescent Literacy: The Questions

1. How is adolescent literacy growth different than growth in K-3

2. What are the most important instructional challenges

3. What instructional enhancements need to occur in middle and high schools

Each year skills and knowledge required to meet standards increases

Must be able to draw upon more extensive background knowledge

Must learn to deal with longer sentences and more complex ideas

Must acquire many new vocabulary words

Must learn to recognize many new words automatically

NAEP 4th grade level

Just what Tom's thoughts were, Ned, of course, could not guess. But by the flush that showed under the tan of his chum's cheeks the young financial secretary felt pretty certain that Tom was a bit apprehensive of the outcome of Professor Beecher's call on Mary Nestor. "So he is going to see her about something important, Ned?" "That's what some members of his party called it." "And the're waiting here for him to join them?" "Yes, and it means waiting a week for another steamer. It must be something pretty important, don't you think, to cause Beecher to risk that delay in starting after the idol of gold?" "Important? Yes, I suppose so," assented Tom. – Victor Appleton, *Tom Swift in the Land of Wonders*

NAEP Grade 12

Pierre had been educated abroad, and this reception at Anna Pavlovna's as the first he had attended in Russia. He knew that all the intellectual lights of Petersburg were gathered there and, like a child in a toyshop, did not know which way to look, afraid of missing any clever conversation that was to be heard. Seeing the self-confident and refined expression on the faces of those present, he was always expecting to hear something very profound. At last he came to Mono. Here the conversation seemed interesting and he stood waiting for an opportunity to express his own views, as young people are fond of doing – Leo Tolstoy War and Peace

More low frequency words –

More complex and longer sentences

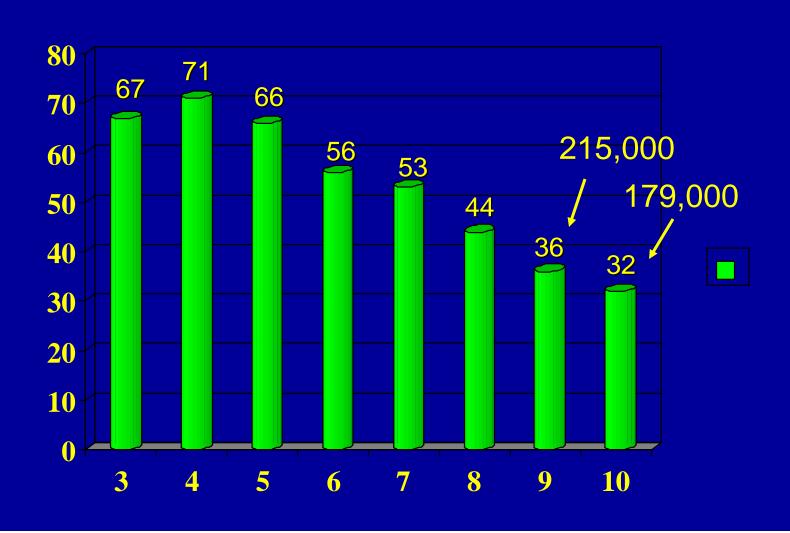
More complex and longer sentences

Deeper and broader knowledge assumed

Instructional challenge #1

1. Who is responsible for providing instructional support for the continued growth of literacy skills from 4th through 12th grades for students reading "at grade level?"

Percent of students at grade level or above from grades 3 through 10 in 2005



Instructional challenge #1

- 1. Who is responsible for providing instructional support for the continued growth of literacy skills from 4th through 12th grades?
- If we decide who is responsible, what would it look like?
 - Need strong support for lots of readingengaging reading contexts
 - Need powerful instruction in essential, or core knowledge
 - Need more powerful strategies for dealing with a variety of texts and reading challenges

Struggling readers are typically lagging behind in several critical areas:

Poor readers in 6th grade have struggled with reading from the beginning—they have lots of bad habits

Poor readers in 6th grade have, for several years, engaged in much less reading than their grade level peers

Teaching Reading is Urgent

A student at the 10th percentile reads about 60,000 words a year in 5th grade

A student at the 50th percentile reads about 900,000words a year in 5th grade

Average students receive about 15 times as much practice in a year

Percentile Rank	Minutes Per Day		Words Read Per Year		
	Books	Text	Books	Text	
98	65.0	67.3	4,358,000	4,733,000	
90	21.2	33.4	1,823,000	2,357,000	
80	14.2	24.6	1,146,000	1,697,000	
70	9.6	16.9	622,000	1,168,000	
60	6.5	13.1	432,000	722,000	
50	4.6	9.2	282,000	601,000	
40	3.2	6.2	200,000	421,000	
30	1.8	4.3	106,000	251,000	
20	0.7	2.4	21,000	134,000	
10	0.1	1.0	8,000	51,000	
2	0	0	0	8,000	
				4.0.0.0	

(Anderson, Wilson, & Fielding, 1988)

The consequences of early and continuing reading difficulties

Lack of reading practice-affects fluency

Lack of wide reading-affects growth of vocabulary and knowledge of the world

Lack of wide reading- affects growth of strategic reading skills

<u>Limited reading of classroom assignments-</u> affects growth of essential knowledge

Loss of interest in reading and learning

Primary Characteristics of Struggling Readers in Middle and High School

They are almost always less fluent readers—sight word vocabularies many thousands of words smaller than average readers

Usually know the meanings of fewer words

Usually have less conceptual knowledge

Are almost always less skilled in using strategies to enhance comprehension or repair it when it breaks down

Will typically not enjoy reading or choose to read for pleasure

Instructional challenge #2

How do we engineer interventions intensive enough, and broad enough, to "close the gap" for struggling readers

Some student will need intensive instruction in basic word reading strategies including phonics

Most students will need instruction and orchestrated practice to build reading fluency

Most students will need explicit and systematic instruction to build vocabulary

All students will need instructional support to enhance active use of efficient comprehension strategies

All students will need instruction that pays particular attention to engagement in reading for meanin

Instructional Enhancements required in middle and high school

1. Intensive Reading Classes for students reading below grade level

Offer a continuum of intensity based on need – at least two levels

Intensity is manipulated by instructional group size or by length of instruction

Improving reading skills in middle and high school

- 1. Schedule a <u>90 minute block</u> every day for students with reading skills more than two years below grade level with word level difficulties
 - Word level skills- accuracy and fluency
 - Strategy instruction and engagement in thinking about text
 - Both embedded and systematic vocabulary instruction
 - Lots of guided, supported practice in reading

Improving reading skills in middle and high school

 Schedule a <u>60 minute block</u> every day for other students reading below grade level with less impaired word level reading skills

Word level skills- fluency

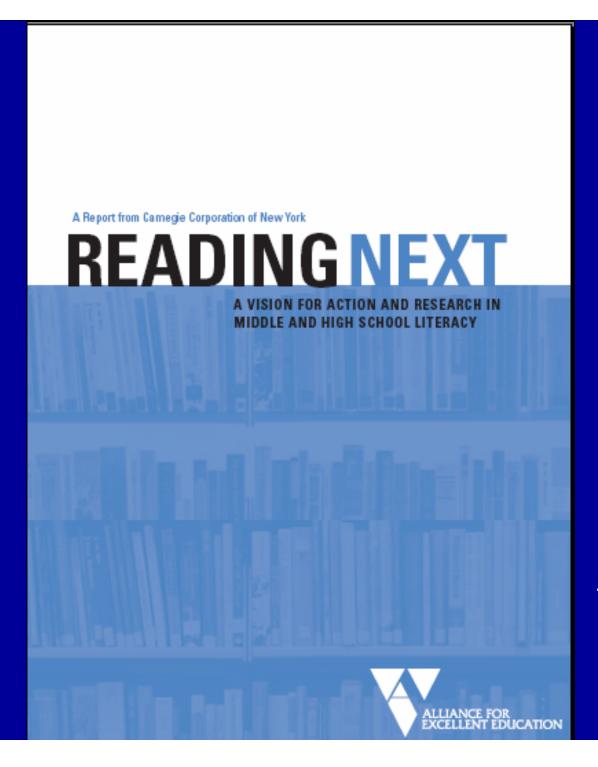
Strategy instruction and engagement in thinking about text

Both embedded and systematic vocabulary instruction

Lots of guided, supported practice in reading

Instructional Enhancements required in middle and high school

- 1. Intensive Reading Classes for students reading below grade level
- Provide professional development to content teachers to improve instruction in content knowledge and understanding-critical thinking about content
- 3. Provide professional develop to content teachers to improve their skills in teaching students how to learn from reading
- 4. Ongoing formative assessments as well as end of year outcome assessments



A very recent report on "what works" with middle and high schools students.

Contains a 15 point research- based "action plan" for middle and high schools

Download at:

http://www.all4ed.org/publications/ReadingNext/ReadingNext.pdf

A considered opinion of five eminent researchers in adolescent literacy...

"....enough is already known about adolescent literacy—both the nature of the problems of struggling readers and the types of interventions and approaches to address these needs—in order to act immediately on a broad scale."

(Biancarosa & Snow, 2005)

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