

In order to be successful, interventions with older struggling readers must....

- 1. Provide instruction that improves reading comprehension
- 2. Accelerate growth in reading comprehension so that students not only meet yearly growth expectations, but also achieve significant amounts of "catch up" growth

What we know about the factors that affect reading comprehension

Proficient comprehension of text is influenced by:

Accurate and fluent word reading skills

Oral language skills (vocabulary, linguistic comprehension)

Extent of conceptual and factual knowledge

Knowledge and skill in use of cognitive strategies to improve comprehension or repair it when it breaks down.

Reasoning and inferential skills

Motivation to understand and interest in task and materials

A research-based view of reading comprehension Reading comprehension involves active mental effort to construct meaning Good readers use prior knowledge, information in text, and thinking/reasoning processes to construct new knowledge and understanding "reading comprehension is thinking guided by print" Perfetti 1995 What skills and knowledge required for reading comprehension are typically deficient in adolescent struggling readers? Reading Next (Biancarosa & Snow, 2006) suggested that only 10% of older readers continue to struggle with word level skills However, a recent study of 8th and 9th grade struggling readers in urban settings indicated that the reading difficulties of these students were more pervasive Hock, et al., (in press) studied 345 8th and 9th grade students Struggling readers were defined as those performing below the 40th percentile on the Woodcock Language Proficiency Battery and Gray Oral Reading Test The sample contained 202 struggling readers, and 143 "proficient" readers

The students were given a 2.5 hour battery of tests measuring alphabetics (decoding), fluency, accuracy,

vocabulary, and comprehension

Measure	Struggling	Proficient
Decoding Efficiency	14 th	50 th
Text Accuracy	12 th	70 th
Text Rate	14 th	61 st
Vocabulary	17 th	74 th
Reading Comp.	9 th	64 th

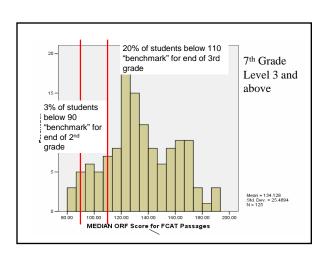
63% of struggling readers had significant deficits in all areas measured

Percentile Rank for Struggling and Proficient Readers on Various Measures

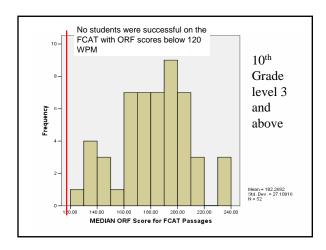
Important issue and question:

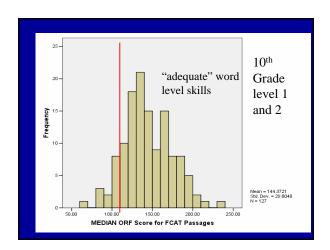
Should interventions address <u>all</u> areas of weakness?

How strong do decoding and fluency skills need to be before they are no longer an issue?



3







A study of intensive, highly skilled intervention with 60 children who had severe reading disabilities

Children were between 8 and 10 years of age

Had been receiving special education services for an average of 16 months

Nominated as worst readers: at least 1.5 S.D's below grade level

Average Word Attack=69, Word Identification=69, Verbal IQ=93

Randomly assigned to two instructional conditions that both taught "phonics" explicitly, but used different procedures with different emphasis

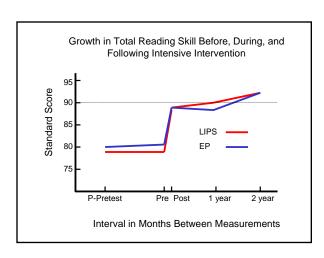
Children in both conditions received 67.5 hours of one-on-one instruction, 2 hours a day for 8 weeks

Children were followed for two years after the intervention was completed

Time x Activity Analyses for the Two Intervention Approaches

	LIPS	EP
Phonemic Awareness and Phonemic Decoding	85%	20%
Sight Word Instruction	10%	30%
Reading or writing connected text	5%	50%

Torgesen, J.K., Alexander, A. W., Wagner, R.K., Rashotte, C.A., Voeller, K., Conway, T. & Rose, E. (2001). Intensive remedial instruction for children with severe reading disabilities: Immediate and long-term outcomes from two instructional approaches. *Journal of Learning Disabilities*, 34, 33-58.



Study of struggling readers in 3rd and 5th grade:

We evaluated 4 commercially available intervention methods that are widely used to remediate difficulties in late elementary school-small group instruction, 50 minutes every day

- 1. Corrective Reading
- Used Word-level instructional 2. Wilson Reading System components only
- 3. Spell Read P.A.T.
- 4. Failure Free Reading

Word-level plus comprehension and vocabulary

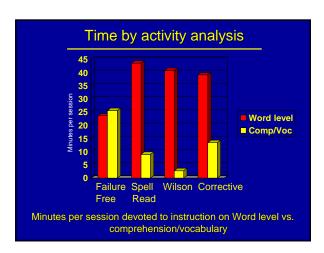
The students participating in the study

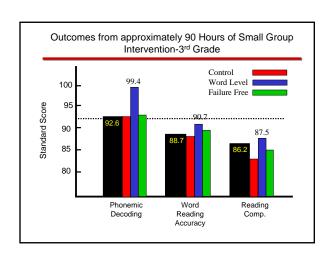
3rd and 5th graders, nominated by teachers and selected by screening measures (1576)

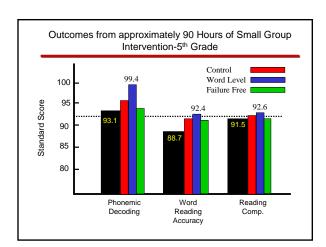
Below the 30th percentile on a combined measure of word reading efficiency, and above the 5th percentile in broad verbal ability (PPVT) (1,042 – 772 gave permission to participate)

45 % FR lunch, 27% Min., 33% had L.D. or other school diagnosis

Average reading levels – Phonemic decoding – 32nd % Oral reading fluency – 17th % Reading Comprehension – 23rd %







Study of struggling readers in 9th grade Students were selected because they performed below grade level (Levels 1 and 2) on 8th grade FCAT 592 students were formed into quartets within 5 high schools on basis of 8th grade FCAT. Within quartets in each school, students randomly assigned to one of three treatments or a control treatment Average reading levels – Phonemic decoding – 45th % Oral reading fluency – 35th % Reading Comprehension – 21st % All groups received 90 min. instruction per day in groups of 20, 5 days a week for the school year Post-testing on FCAT took place in March

Study of struggling readers in 9th grade

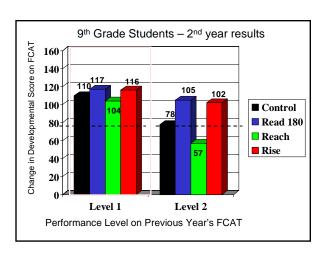
Students randomly assigned to one of four groups:

<u>Control</u>-instruction as usual-reading, discussion, written assignments

Read 180 – technology based intervention-individualized instruction in word level, comprehension, and vocabulary

 $\underline{Reach} - \text{scripted instruction in word level, comprehension, critical reading and writing} \\$

RISE (locally developed intervention involving lots of reading with leveled text, discussion, vocabulary, responsive help with decoding)



9th Grade Students

Level 1 intervention students

Gap to Level 2 in 8th grade = 134 DSS points Gap to Level 2 in 9th grade = 93 DSS points

Level 2 intervention students

Gap to grade level in 8^{th} grade = 83 DSS points Gap to grade level in 9^{th} grade = 68 DSS points

"Enhanced Reading Opportunities" study

Is a randomized controlled trial testing two supplemental literacy interventions that are designed as full year courses and targeted to students whose reading skills are two or more years below grade

Reading Apprenticeship Academic Literacy, designed by WestEd, and Xtreme Reading, designed by the University of Kansas Center for Research on Learning-Don Deshler's

group
Both interventions are comprehensive, and designed tohelp
ninth-grade students "adopt the strategies and routines used by
proficient readers, improve their comprehension skills, and be
motivated to read more and to enjoy reading."

Participants were 2,916 ninth-grade students from 34 high schools and 10 school districts

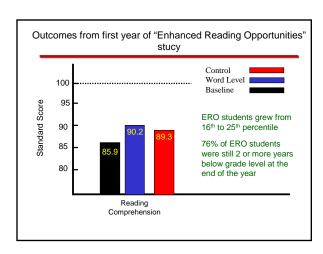
"Enhanced Reading Opportunities" study

Schools were randomly assigned to interventions, and within each school, students were randomly assigned either to intervention or control (no additional instruction) conditions

Each teacher was responsible for teaching four sections of the ERO class. Each section had 10 and 15 students. Classes met for a minimum of 225 minutes per week and were scheduled as a 45-minute class every day or as a 75- to 90-minute class that met every other day. The classes began an average of six weeks after the start of the 2005-2006 school year.

Teachers received one week of training during the summer, some booster training sessions during the year, and minimum of two one-day coaching visits during the year

Students attended 83 percent of the scheduled ERO classes, and they received an average of just over 11 hours of ERO instruction per month. About 80 hours altogether



Two possible instructional models for middle and high school

A model involving focused reading instruction for all students – schools with high proportions of struggling readers

Every student takes a "reading" or "reading and writing" class for one or two periods a day.

Almost all teachers participate as reading instructors during the reading period

All students receive instruction targeted at their level—from basic to advanced

Will require well developed curriculum supports for teachers to use as instructional scaffolds

Two possible instructional models for middle and high school (cont.)

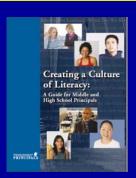
A model involving content-area literacy support and at least two levels of "intervention" classes

Science, History, Social Studies, English teachers assume more responsibility for teaching students how to comprehend and learn from their texts

Comprehension strategy /vocabulary oriented intervention classes for students close to grade level standards – one period per day

Intensive, broad based, intervention classes (90 minutesno more than 10-15 students) for students with word-level (accuracy and fluency) + other problems.

Documents useful at district and school level



Creating a culture of literacy: A guide for middle and high school principals. National Association of Secondary School Principals (2005).





Improving Literacy Instruction in Middle and High Schools: A Guide for Principals

Go to www.centeroninstruction.org click on reading

Questions/ discussion

Perfetti, C. A. (1985). Reading Ability. New York: Oxford University Press Biancarosa, G., and Snow, C.E. (2006). Reading next—A vision for action and research in Middle and High School Literacy. Washington, DC: Alliance for Excellent Education Hock, M. F., Brasseur, I. F., Deshler, D. D., Catts, H. W., Marques, J., Mark, C. A., & Wu Stribling, J. (in press). What is the nature of struggling adolescent readers in urban high schools? Learning Disability Quarterly. Torgesen, J.K., Myers, D., Schirm, A., Stuart, E., Vartivarian, S., Mansfield, W., Stancavage, F., Durno, D., Javorsky, R., & Haan, C. (2006). Closing the Reading Gap: First year findings from a randomized trial of four reading interventions for striving readers. Volume II: National Assessment of Title I: Interim Report to Congress, Institute of Education Sciences, Washington, D.C. Kemple, J.J., Corrin, W., Nelson, B., Salinger, T., Herrmann, S., Drummond, K., Strasberg, P. (2007). The enhanced reading opportunities study: Early impact and implementation findings. Institute of Education Sciences, Washington, D.C.