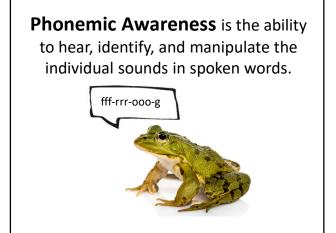


# What is Dyslexia?

- Dyslexia is a word reading disability.
- The primary characteristic is difficulty *reading* and spelling single words, especially when presented in lists.
- It leads to problems reading text, but is not a text-level disability.
- Dyslexia can be mild, moderate, or severe, or anywhere in between.

### What is Dyslexia?

- A language-based disorder, not related to vision.
- Primary underlying cause: Poor phonemic awareness (ability to hear and manipulate sounds in words), NOT "seeing backwards"





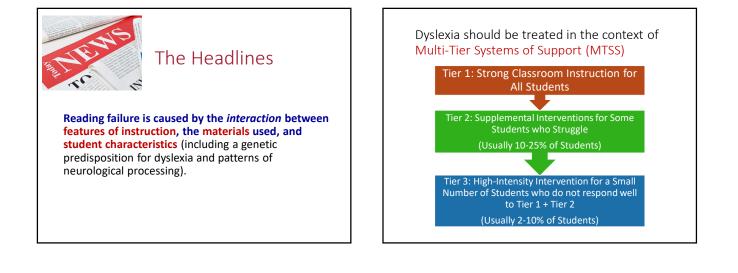


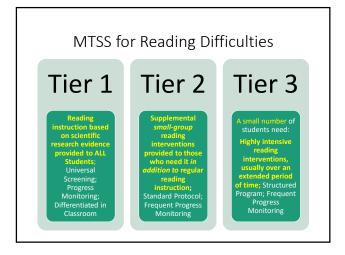
# The Headlines

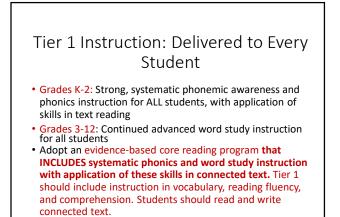
- The brains of children who have or are at-risk for serious reading difficulties or disabilities, including dyslexia, function differently than those of children who are not at-risk when they try to read words.
- *Instruction* changes how the brain processes information!



• After about Grade 3, intervention must be provided with high intensity and may be needed over a long period of time.







### Tier 1: Critical Content

(Grades for Typically Developing Readers)

► Oral Language, Vocabulary (pre k -12)

- Phonological/Phonemic Awareness (pre k-1)
- Phonological Decoding (phonics) (k-2)
- Word Study of Increasing Complexity (k-12)
- Fluency Development (1-6)
- Comprehension (pre k-12)
- Linking Reading, Spelling, Writing (k-12)

# Foundational Skills to Support Reading for Understanding in Kindergarten Through $3^{\rm rd}\,{\rm Grade}$



There are also Practice Guides for teaching comprehension, and many other topics.

http://ies.ed.gov/ncee/wwc/PracticeGuide/21

Free materials for Professional Learning Communities (with videos): <a href="https://ies.ed.gov/ncee/edlabs/regions/southeast/plc.asp">https://ies.ed.gov/ncee/edlabs/regions/southeast/plc.asp</a>

#### Foundational Reading Skills Practice Guide

- Recommendations of an expert panel (including educators) + review of research evidence
- A comprehensive search of the research literature between 2000 and 2014 identified 4,500 citations related to reading instruction
- Relevant studies were reviewed using rigorous standards (56 studies met standards)

Panel Member	Affiliation
Barbara Foorman (chair)	Florida Center for Reading Research
Michael Coyne	University of Connecticut
Carolyn A. Denton	University of Texas Health Science Center at Houston
Joseph Dimino	Instructional Research Group
Lynda Hayes	P.K. Yonge Developmental Research School
Laura Justice	Ohio State University
Warnick Lewis	Bond Elementary School
Richard Wagner	Florida State University

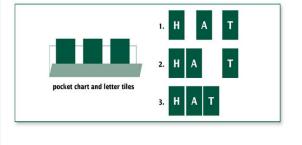
# WWC Recommendations(Foorman et al., 2017)

- 1. Teach students academic language skills, including inferential and narrative language and vocabulary
- 2. Develop awareness of the sound segments in speech *and* link to letters
- 3. Teach students to decode words, analyze word parts, and write and recognize words
- 4. Ensure that each student reads connected text every day to support reading accuracy, fluency, and comprehension

Recommendation 3: Teach students to decode words, analyze word parts, and write and recognize words.

Action Step 1: Teach students to blend letter sounds and sound-spelling patterns from left to right within a word to produce a recognizable pronunciation.

Sample Teaching Activities: Blending by chunking with a pocket chart and letter tiles



## Tier 2 Instruction for Students with Word-Reading Difficulties

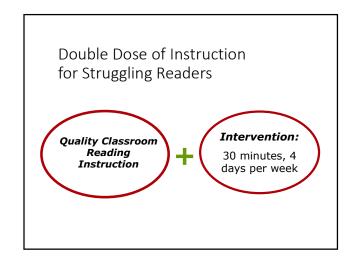
- Include supplemental systematic, explicit instruction in phonemic awareness (for those who need it), phonics, and fluent text reading.
- Nearly all students with WRDs will need phonics and fluency instruction, regardless of age.
- Small groups (we suggest 3-5)
- We suggest about 30 min 4 times per week.
- In addition to regular reading instruction
- May need to be provided consistently over a period of several weeks or even months!

# The Challenge...

Students who are performing below grade level will only close the gap with their classmates if they learn **FASTER** than other students!

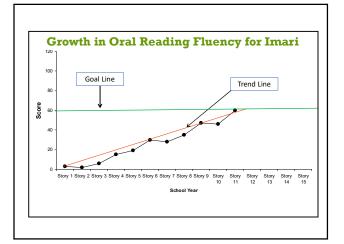
More Instruction Efficient Instruction More Practice

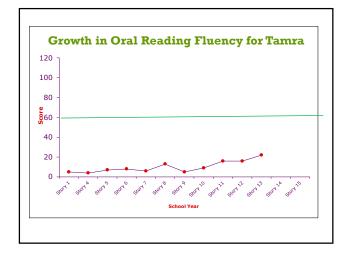






- Even when Tier 1 instruction and Tier 2 intervention are of very high quality, some students do not have adequate response
- In research projects, between < 1% and about 10% of students needed Tier 3 intervention
- This depends on the quality of Tier 1 and the quality, intensity, and availability of Tier 2







6

### Tier 3 Intensive Intervention

What kind of intervention is effective for students who have serious word-reading disabilities, including dyslexia?





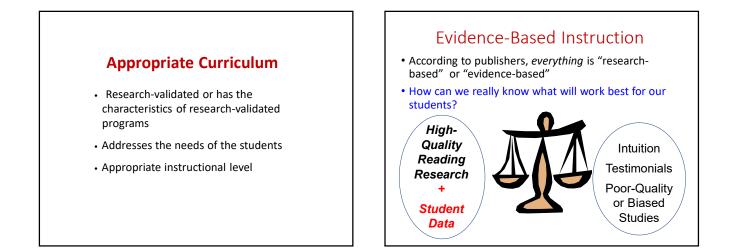
# What Does *Intensive* Reading Intervention Mean?

- Very small groups
- Increased dosage (longer lessons, more frequent, over a longer period of time)
- Appropriate curriculum verified by high-quality educational research
- Effective instructional methods
- Increased active student involvement
- Constant monitoring
- A sense of urgency
- Collaboration among teachers

### Very Small Groups

- 1:1 to 1:3
- Individualize instruction
- Maintain attention
- Active involvementMonitoring and feedback
- Less "down time"





# Two Acceptable Standards

#### \*Research-Validated Programs

- The programs or teaching approaches themselves were directly studied
- Research was of high quality
- Ideally: More than one study found similar results

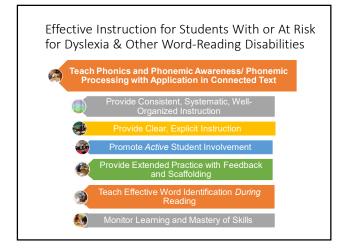
#### Evidence-Based Programs

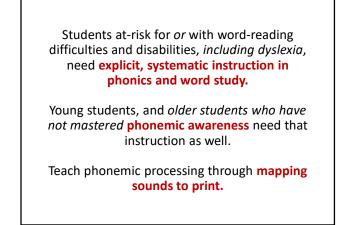
- Programs and teaching approaches have characteristics that are known to be effective.
- These characteristics are derived from converging evidence from multiple scientific studies.

What should we look for in an intervention program for students with word-reading disabilities?



# And what will make my teaching more effective for them?

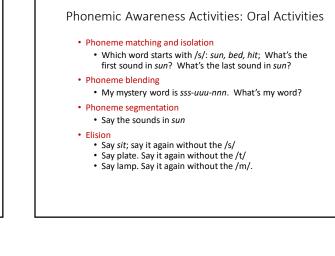


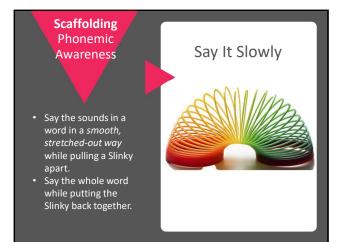


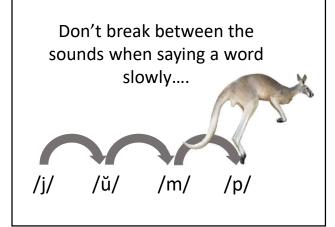
### Phonemic Awareness

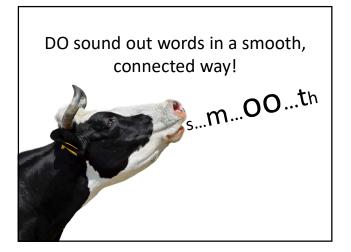
- Phonemes: The *individual sounds* that make up speech.
- The ability to hear, identify, and manipulate the individual sounds in spoken words.
- HIGHY predictive of successful reading acquisition.
- Phonemic awareness can be taught!

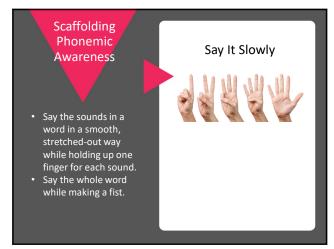


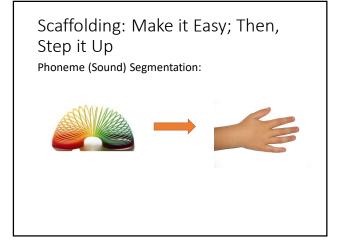


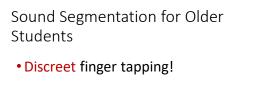














# Why teach phonics?

English has:

- 44 phonemes
- About 250 ways of writing them
  - Example: a\_e, ai, ay, eigh

Thousands of words!



# It's NOT the "bad old" phonics instruction!

- Not boring "skill and drill" worksheets.
- Active student involvement
- Clear instruction + practice activities that are purposeful AND fun!



SOUND	Key Word	SOUND TYPE	
m	mad	continuous	Note that some
а	ask	continuous	can be held and some cannot be
t	top	stop	
s	sell	continuous	held.
i	if	continuous	
r	rat (rrrr not er)	continuous	If you can
d	dog (NOT duh)	stop	hum it, hold
n	net	continuous	it!
0	off	continuous	
f	fat	continuous	Do NOT add
с	cat	stop	"uh" at the end
р	park (NOT puh)	stop	of the stop
I	log	continuous	sounds. If you
h	hat (NOT huh)	stop	must add a
g	go	stop	vowel sound,
u	up	continuous	add "i".
b	big (NOT buh)	stop	

### Word Study Beyond Beginning Phonics

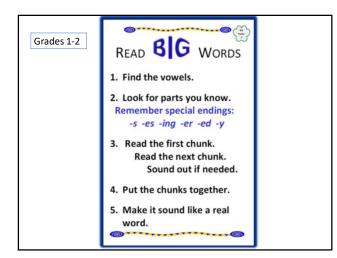
- Recognizing orthographic (spelling) patterns: Teach students to quickly recognize common spelling patterns, such as the silent *e* pattern. Teach some common spelling rules, but minimize the number of rules the most at-risk students have to memorize.
- Reading and Spelling multisyllable words: Recognizing larger patterns in words, such as words that end in consonant + *le* (*bottle*, *sizzle*) and syllables with silent *e* patterns (exer*cise*, *hate*ful)
- Morphemic analysis: The use of meaningful word parts to understand the <u>meanings</u> of words (prefixes, suffixes, Greek and Latin roots)

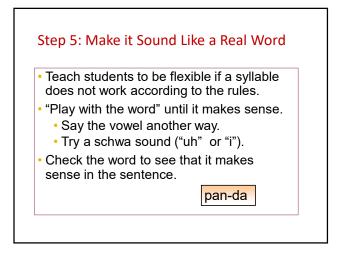
### What Students Need To Know About Multisyllabic Words

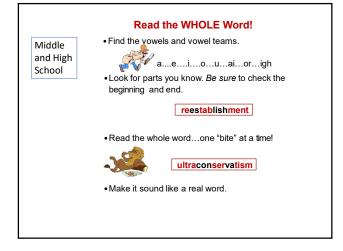
- Understand the concept of a syllable and that each syllable has one vowel sound
- Know that recognizable word parts are found in multisyllable words
- Recognize common prefixes, suffixes, and root words
- How to divide the word into word parts, read each part, and combine the parts to read the word
- How to be flexible when a word has a part or parts that are phonetically irregular

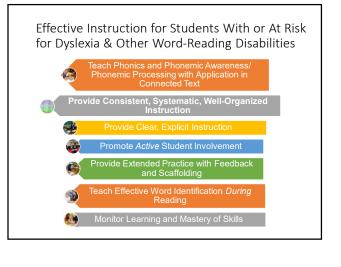
### Syllable Types (*Recognizable Patterns*)

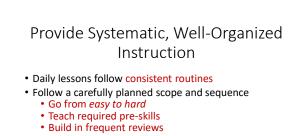
- Closed (CVC) (<u>pic-nic</u>) (cat)
- Open (CV) (<u>ve</u>-<u>to</u>) (me, go)
- Silent e (VCe) (de-<u>bate</u>) (cake)
- Vowel team (re-<u>frain;</u> ap-<u>proach</u>) (rain, boat)
- R-controlled (en-<u>ter; birth</u>-day) (her, bird)
- Consonant-le (bot-<u>tle;</u> puz-<u>zle</u>)
- Other (mea-<u>sure;</u> spe-<u>cial;</u> va-ca-<u>tion</u>)











• Disconnected "mini-lessons" are not sufficient.

• The EASIEST way to do this is to use an evidence-based instructional program that is designed to provide structured, systematic instruction!

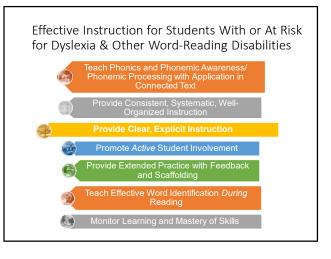
	SCOPE AND SEQUENCE Lesson Introduced							
Lesson	Phonemic Awareness	Letter-Sound Correspondences			Fluency	Comprehensio Strategies		
			Word Types	Tricky Words		N. Starting		
1	Initial Sound	•Mm			Story Reading			
2	VC Pattern     CVC Pattern     Initial Sound     Last Sound			•1	Choral Story Reading			
3	CVC Pattern (continuous)     Middle Sound	• Aa (short)						
4			• VC Words	•the •The				
5	CVC Pattern (stop)	•Tt						
6			CVC Words     (continuous)		Connected Text			
7		•Ss			Connected Text			
8			• Plurals-s	•is •Is	Connected Text			
9	CVCC Pattern (continuous)	• Rr			Connected Text			
10				•on	Connected Text     Story-Time Reader 1,     The Baby, Chapter 1	Browse to Make Story Prediction		

Look for a program that assesses mastery of the skills that are taught. (Mastery tests, Unit tests, Mastery checks).

When confusion is built upon confusion, the result is a mess!



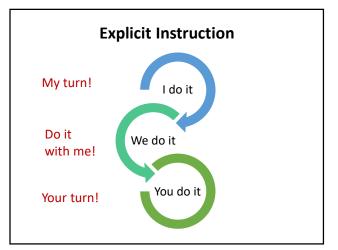
This Photo by Unknown Author is licensed under CC BY-SA-NC



### Please...

- Tell me how it works.
- Show me how to do it.
- Watch me do it and tell me if I'm doing it right.
- Help me practice until it gets easier.
- ...Sometimes you might have to show me again.





## Explicit Instruction Routine

Model and teach ("I do it") Show students the correct way. Guided practice ("We do it") Students do it with teacher support. Group practice ("Do it together") Students do it as a group WITHOUT the teacher. (Teacher provides feedback.)

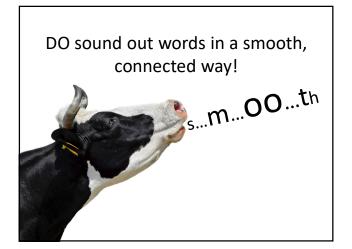
Independent practice ("You do it") Students practice alone as teacher observes and provides feedback.

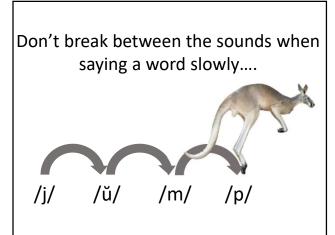
Cumulative practice Students practice new items along with items already learned.

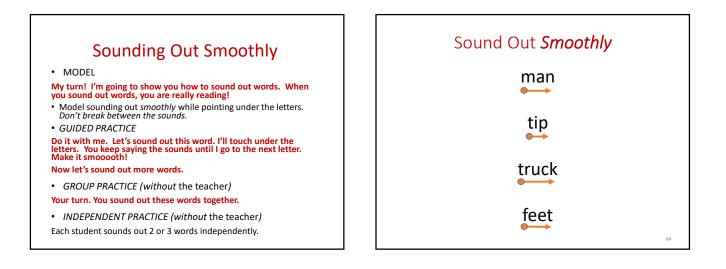


# Teaching Blending and Sounding Out

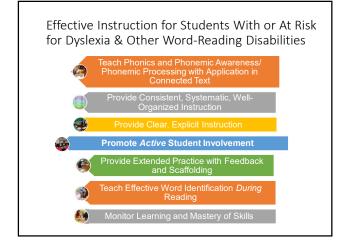
- Start with 2-letter words with continuous sounds: sounds you can hold
- ONLY use decodable words: Words that can be read using the letter-sounds the students have been taught.
- Model sounding out without breaking between the sounds.
- Students practice; provide feedback and model again as needed.







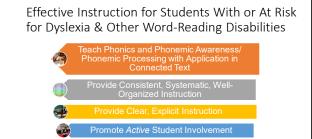
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## **Active Student Involvement**

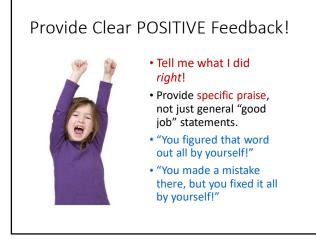
- EACH child gets many opportunities to respond and receive feedback (Smaller groups are better!)
- Little "Teacher Talk"
- Quick pacing, little "down time"
- May include manipulatives/individual white boards, etc.



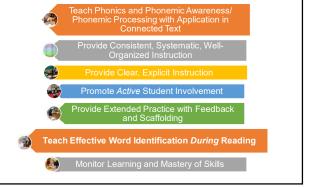


- Provide Extended Practice with Feedback
  - Teach Effective Word Identification *During* Reading
- Monitor Learning and Mastery of Skills





# Effective Instruction for Students With or At Risk for Dyslexia & Other Word-Reading Disabilities



### Meaningful Reading and Writing Practice

- Students apply the word reading skills and strategies they are learning in reading and writing.
- Teacher provides feedback and support.
- At-risk students do not "automatically" apply the skills they have learned.



# What Do *You* Do when Reading Gets Challenging?

"As with hypoventilation, mild hypoxemia is relatively common after general anesthesia. Hypoxemia must be suspected in any patient with unexplained agitation, cardiac irritability, obtundation, or bradycardia. The possibility of a pneumothorax must always be considered, especially following any retroperitoneal or intraabdominal procedure in which the diaphragm may have been penetrated." (p. 717)

Bogdonoff, Leisure, Mathes, & Spiekermann, 1998

### Reading Behaviors of Skilled Readers

- Use primarily letters and letter patterns in words, rather than context, to identify familiar and unfamiliar words
- Recognize words at sight; process "chunks" (such as syllables)
- Look for recognizable word parts in unknown words
- Use context to confirm that the words makes sense

### Reading Behaviors of Less Skilled Readers

- Rely heavily on context and guessing
- Read slowly and with effort
- Skip challenging words and sections of text
- Do not monitor their reading to make sure it makes sense



### Teach these **Key** Reading Habits *as* Students are Reading Text

<u>Reading Unfamiliar Words</u> using the phonics skills students have learned <u>Self Monitoring</u>: Does it make sense?



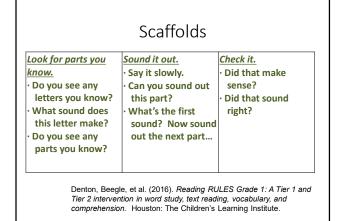
## Three-Step Strategy for Reading Words

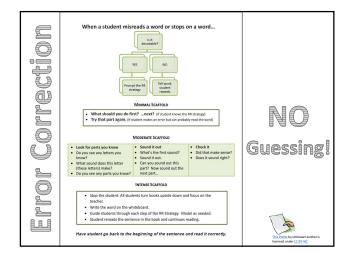


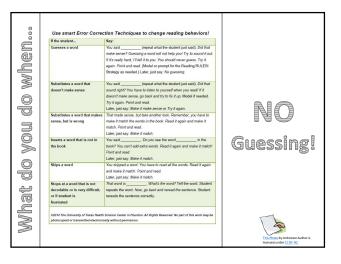
- 1. Look for parts you know.
- 2. Sound it out.
- 3. Check it! Make sure the word you read makes sense.

### Teaching the 3-Step Strategy Before Reading

- Select 1 or 2 tricky words from the text you will read.
- Write one word on a small white board.
- Model using the strategy to read the word (Go through each step).
- Write the other word on the white board.
- Have students apply the strategy, step by step, to read the word.



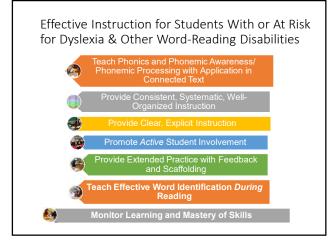




Re	ead
Decodable Text	Leveled Text
<ul> <li>Can be read using the letter-</li></ul>	Children are matched to text
sounds and sight words the	at their instructional reading
child has been taught	level
<ul> <li>Students learn to apply the</li></ul>	<ul> <li>Many words cannot be read</li></ul>
decoding skills they are	through letter-sound
learning in connected text	associations, so students must
<ul> <li>Important scaffold for</li></ul>	use pictures and other cues to
students with or at risk for	try to identify the words,
dyslexia	especially at the lower levels

#### Decodable Text Can be Meaningful and Attractive

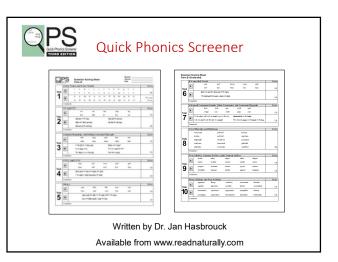


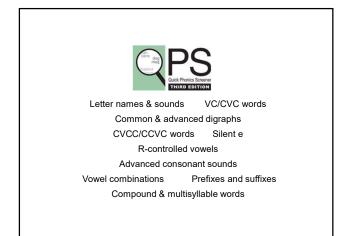


- Don't just "cover" critical skills and content; teach it to mastery.
- Look for a program that assesses mastery of the skills that are taught. (Mastery tests, Unit tests, Mastery checks).



Letter-Sou		
<u>List 1</u>	<u>List 2</u>	<u>List 3</u>
m	ch	blew
а	ee	boil
t	ow	soy
S	oa	watch
i	ai	bottle
(continues)	(continues)	(continues)

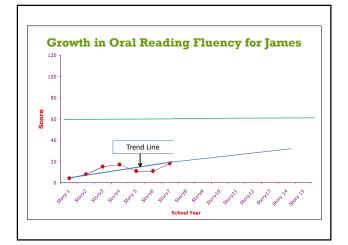




### Oral Reading Fluency Correlates Highly with Standardized Tests of Reading Comprehension (Decreasing above Grade 4)

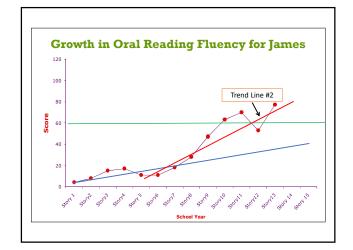
Measure	Coefficients	
Oral Recall/Retell	.70	
Question Answering	.82	
Oral Reading Fluency	.91	

Fuchs, Fuchs, Hosp,& Jenkins (2001)



# If it's not working, **adjust your teaching.**

- Reteach one or more lessons. Sometimes we have to "go back" several lessons and reteach.
- Add additional review and practice for an individual student. Provide feedback!
- Adjust your pacing. Dragging can be as much of a problem as moving too fast.
- Make instruction more explicit.
- Be SURE you are correcting errors when they occur. Look at the students' rate of correct responding.
- Take a look at behavior management and how students can become more actively involved in the lessons.
- If a student is *still* not responding well to instruction, you may need to try a different program...Administer more diagnostic reading assessments.



# Take-Away Messages from This Day:

If you are committed to preventing and remediating word-reading difficulties (WRD), including dyslexia:

- Teach an evidence-based core classroom reading program that includes systematic instruction in phonemic awareness (grades K-1), phonics (grades K-2 or 3), and word study (all grades).
- Teach students to APPLY the same phonics and word study skills they are learning when they read and write new or difficult words.

### Take-Away Messages from This Day:

- Tier 2 and Tier 3: Provide consistent, evidence-based small-group supplemental instruction for students who need it.
- Tier 3 Intervention is delivered with high intensity, in very small groups. Older students with serious reading problems and students with severe dyslexia need Tier 3 intensive intervention.
- Provide explicit, systematic instruction in phonemic awareness, phonics, and word study, with application in meaningful text.
- · Monitor progress and adjust your teaching

### Books

- Hasbrouck, Jan (2020). Conquering Dyslexia. www.benchmarkeducation.com
- Denton, Vaughn, Wexler, Bryan, & Reed (2012). Effective Instruction for Middle School Students with Reading Difficulties. Brookes Publishing.
  - · Assessment and Instruction, with many lesson plans Includes an Appendix with Guidelines for Reviewing a **Reading Program**
  - https://products.brookespublishing.com/Effective-Instruction-for-Middle-School-Students-with-Reading-Difficulties-P620.aspx
- Fletcher, Lyon, Fuchs, & Barnes. (2019) Learning Disabilities: From Identification to Intervention (2<sup>nd</sup> ed.). Guildford Press.

#### Resources

- International Dyslexia Association https://dyslexiaida.org/
- Children's Learning Institute (University of Texas Health Science Center at Houston)
- https://www.childrenslearninginstitute.org/ The ENGAGE platform: <u>cliengage.org</u>
- Florida Center for Reading Research <a href="https://www.fcrr.org/">https://www.fcrr.org/</a>
- Texas Center for Learning Disabilities https://www.texasldcenter.org/
- Meadows Center for Preventing Educational Risk https://www.meadowscenter.org/
- What Works Clearinghouse Practice Guides https://ies.ed.gov/ncee/wwc/PracticeGuides

### Children's Learning Institute (University

of Texas Health Science Center at Houston)

#### Families

CIRCLE Activity Collection: Family is found at <u>cliengagefamily.org</u>
 o for children 0-8 years (can sort activities by age)
 o no login required; English & Spanish

#### Teachers

- The classroom activity collections are available in English & Spanish;
   login is required with a free CLI Engage account (<u>cliengage.org</u>)
   CIRCLE Activity Collection: Infont & Toddler
   CIRCLE Activity Collection: Pre-K to Grade 2
   After logging in, access these collections through the CLI Engage dashboard (or go to <u>https://circleactivitycollection.org/</u>)
- Family Engagement Resources for teachers to use in partnership with families: https://cliengage.org/public/tools/quality/family-engagement-resources/

A CLI Engage Account is free to anyone with a Gmail account.

### Children's Learning Institute: The AERO Reading Resources Coming Soon...Fall, 2021

- Access a comprehensive set of activities for providing instructional support in early reading. Access to the AERO Collection will be free of charge with a CLI Engage account (free to those with a gmail account).
- The AERO Collection consists of the activities that comprise the AERO Reading Curriculum. The AERO Reading Curriculum is a comprehensive supplemental early reading curriculum with lessons for providing Tier 1, 2, and 3 small-group instruction.
- Users of the AERO Collection can access all the separate activities in the AERO Curriculum. Teachers may select individual activities, lessons, or units to teach as a supplement to their core reading instruction program.
- Watch this space: <u>https://cliengage.org/public/tools/materials/</u>

# Florida Center for Reading Research

- Guide to Reviewing a Reading Program <u>https://files.eric.ed.gov/fulltext/ED527205.pdf</u>
- Student Center Activities for Pre-K, K- Grade 1, Grades 2-3, Grades 4-5 https://www.fcrr.org/student-center-activities

## Regional Educational Laboratories: REL Southeast

- <u>https://ies.ed.gov/ncee/edlabs/regions/southeast/</u> publications.asp
- Click on "Literacy"





Professional Learning Community Emergent Literacy Modules: Print Knowledge, Phonological Awareness, Etc. https://les.ed.gov/ncee/edlabs/regions/south east/elplc/plc\_materials\_intro.asp





#### Meadows Center for Preventing Educational Risk https://www.meadowscenter.org/ Series of Videos for Parents: "Helping Your Kid With ..... " -VOCABULARY AND COMPREHENSION Word Recognition and Fluency

https://meadowscen ter.org/library/resour ce/helping-your-kid-with-basic-phonicsat-home

https://meadowscenter.org/ files/resources/WordRecog-Fluency\_WEB.pdf

pdf Go to the "Library" and search under "Resource Type" for Booklet/Guide and for "Video/Podcast". You may also search under "Audience" for "Parent"

https://meadowscenter.org/file s/resources/VocabComp\_WEB.

