### Tiered Intervention Within an RtI Framework

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### From Early Literacy to Skilled Reading

- Oral language
- Phonemic awareness
- Letter to sound correspondences
- Decoding words
- Recognizing words
- Understanding words
- Building reading fluency
- Comprehending written text
- [good spelling would be nice, too]

### What's the Fuss All About?

- □ Average readers already have these skills
- □ 40% of public school children nationwide are at risk for reading problems (NAEP, 2010)
- Improving instruction in K-3 reduces risk for 10-15% (Coyne et al., 2004; O'Connor, 2000; 2005; 2010; Vaughn, 2003)

### RTI: A Layered Model

- Professional Development to improve instruction
- □ Measurement of children ("Gating")
- □ Feedback to teachers on children's progress
- □ Intervention for children who need it
- Flexible movement across groups and conditions

#### Intervention Is More than Good Instruction

- □ Intervention is:
  - Tightly focused on only a few crucial skills or strategies
  - Explicit:
    - □ Complex tasks or concepts are broken into small steps
    - □ Each step is modeled, rehearsed, applied, generalized
  - Matched to area of need
  - Monitored for student responsiveness
  - Changed when students respond poorly

### Increasing Intervention Intensity

- □ Moving from Tier 2 to Tier 3:
  - Increase individualization
  - Fine-tune measures to identify specific targets for intervention
  - Assess learning more frequently:
    - Daily learning
    - □ 5-minute, 15-minute, and next-day retention
  - Adjust the intervention components
  - Form hypotheses and test them out

#### Tier 3 Tests the Source of the Problem

- □ For example:
  - Level of reading materials?
  - An unaddressed weakness?
  - Insufficient practice for skill acquisition or maintenance?
  - Motivation?
- Test the most likely hypothesis by implementing a change and monitoring learning

#### Issues to Operationalize RTI

- □ Assessments to evaluate "risk"
- □ Intervention matched to need
- □ Level to accept as "response"
- □ When to release students from, or increase the intensity of intervention

#### Linking Assessment to Intervention

- □ Alphabetic principle:
  - Segmenting & blending sounds in short words
  - Matching sounds to alphabet letters
- □ Reading words
  - Blending letter sounds
  - Letter combinations
  - Sight words
- □ Fluency
  - Rate and accuracy

#### Building Assessment for Comprehension

- □ Vocabulary
  - Conversational words
  - Academic words
- Understanding Text
  - Generating main ideas
  - Summarization
  - Text structures
    - □ Cause/effect, sequence, compare/contrast

### English Language Learners in RtI

- □ The problem with identifying risk for RD (Klingner et al., 2006):
  - Is it reading risk?
  - Is it language risk?
- Does it matter?
  - Is our RtI system nimble?

### What about Vocabulary in Tier 2?

#### □ Student Issues:

- Native English speakers with RD often have poor spoken language (Catts et al., 2009, 2012)
- EL need conversational vocabulary to participate in Tier 2 intervention
- EL improve vocabulary in mixed EL/NES groups (Silverman et al., 2009)

#### Detential Solution:

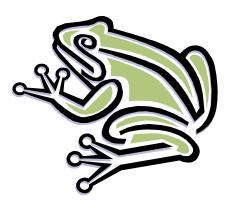
Offer conversational opportunities focused on reading skills

#### Targets for Tier 2 Intervention

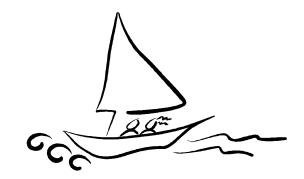
- □ Kindergarten
  - Alphabetic principle
  - Conversation & sentence expansion
- □ First Grade
  - Phonics and decoding words
  - Conversation & restatements
- □ Second grade
  - Affixes and reading fluently
  - Conversation, justifications, and vocabulary
    - $\Box \qquad \text{Why do you think that...?}$
- □ Third grade
  - Multisyllable words, morphemes, and comprehension strategies
  - Justifications and evidence in text
    - □ Show me where....

### Stretched Blending in Kindergarten









### Find the First Sound

- □ Stretch and Stop on the First Sound
- Rehearsal strategies
  - Iteration
  - Feel it in your mouth
- Use words that begin with letter sounds you are teaching

### **Teaching Letter Sounds**

- □ Avoid alphabetical order (Carnine et al., 1997)
- Use cumulative introduction
- □ Teach short vowels in kindergarten
- □ Start teaching letter sounds as soon as possible
- Integrate letter sounds with phonological awareness activities (Ball & Blachman, 1991; O'Connor & Jenkins, 1995)
- Assess letter knowledge, and begin "catch-up" instruction immediately

### **Onset-rime Segmenting**

# Segment 3-phoneme Words

# Ex: Segment to Spell in K-1<sub>(O'Connor et al., 2005)</sub>

#### a m s t i f

### Phonics

- Teach common sounds first
- Teach blending letter sounds
- After 18-20 sounds are well known, add consonant digraphs like th, wh, ch
- □ After consonant digraphs, introduce letter combinations (ee, ar, ing, or, al, er, ou)
- □ Next add the silent -e Rule

# Teaching with Synthetic Phonics

- $\Box$  *Flat.* Say *flat.*
- □ Say *flat* slowly.
- □ How does flat start?
  - Which letter makes that sound?
- □ *Flat*. What comes after /fff/?
  - Which letter makes that sound?
- □ Say all the sounds. Write *flat*.
- □ Sound it out. What word did you write?

### ar says /ar/

- □ Which letters say /ar/? [a-r]
- □ What does a-r say? [/ar/]
- □ Write the sound /ar/. [Students write a-r]
- $\square$  Now write *car*.
- □ Underline the letters that say /ar/.
- □ Read what you wrote. [car]
- □ Write far. [Use same procedure for *part, dark, tar, park*, and ask students to read back their words]

#### Patterns in the 100 Most Common Words

- $\Box$  th: that, than, this
- $\Box$  or: for, or, more
- □ ch: much, [which]
- □ wh: when, which, what
- $\square$  ee: see, three
- □ al: all, call, also
- □ ou: out, around
- □ er: her, after
- □ ar: are, part

### And for Students Who Reverse...

*Stretched blending* [lap]:

Sound it out:

- $\square Mmmiiix = mix$
- $\Box$  Lllaaap = lap

*Bigram blending:* [kit]

- □ Say the middle sound: iiii
- □ Add the first sound: kiiii

□ Do it again: kiiiit = kit

## Strategies to Keep Going

- □ Firm these up first:
- □ Segment to Spell
- Phonics
- High frequency words
- □ [and meanings of words]

#### Which words can the student decode?

cent	tab	put	must
cut	fat	cab	gin
send	pin	rust	son
was	ten	chest	gas
some	hat	wish	fast
mind	tent	walk	ship

# **Sight Words**

- 25 high frequency words make up nearly 1/3 of all print for primary readers
- 100 high frequency words make up nearly 1/2 of all print

### 28 High Frequency Words

the	you	are	this
of	that	as	from
and	it	with	Ι
a	he	his	have
to	for	they	or
in	was	at	by
is	on	be	one

### Teaching Sight Words

- □ Constant time delay
- □ Spelling words aloud
- □ Word walls [ok, but be CAREFUL]

### What About Inventive Spelling?

- □ Strong research support in Grades K-1
- □ By Grade 1, maintain dual accountability:
  - Require correct spelling for known, decodable words
  - Allow inventive spelling for irregularly spelled & difficult words

### Read Connected Text

- □ As you teach sounds, blending, & decoding:
  - Predictable books
  - Student generated fill-ins
  - Decodable sentences
- □ As children decode independently:
  - Add decodable books
- □ As you teach letter patterns
  - Broaden books choices as skills grow

#### And the Children Who Fall Behind?

- Pocket children
- Cumulative introduction
- Review many times daily

#### Interventions in Second Grade

- □ Common letter patterns & affixes
- □ Fluency
- □ Conversation & justifications
  - Why do you think that...?

#### Most Common Affixes

- □ Inflected endings: -ed, -ing, -s, -es
- Prefixes
  - Un-, re-, in-, dis- account for 58% of words with prefixes (White et al., 1989)
- □ Suffixes
  - -ly, -er/or, -sion/tion, -ible/able, -al, -y, -ness, less

## Why Bother Building Fluency?

- □ One piece of the comprehension puzzle
- □ Minimum fluency requirements (Good et al., in press; O'Connor et al., 2002, 2007)
- Silent reading is NOT effective in improving fluency (NRP, 2000)
- Building fluency requires frequent, long-term practice

## Strategies to Increase Fluency

- □ Rereading (Dowhower, 1991; Sindelar et al., 1990)
- Partner reading (Fuchs et al; 1998; Greenwood et al., 1998)
- □ Control the difficulty level of text (O'Connor et al., 2002, 2011)

# **Reading Rates**

Grade	Average Rate	Danger
1, March	45	25
1, May	60	40
<b>2, Dec</b>	75	50
2, May	100	60
<b>3, Dec</b>	120	70
3, May	135	80

What about rates beyond 3rd grade? □ Work to move all children > 90 wpm

Beyond 120 wpm, no evidence for direct improvement of reading comprehension

### 2 Methods of Partner Reading

#### □ <u>Modeled reading (PALS)</u>

- Each student reads in 5 minute intervals
- Strongest partner reads first
- Allows a model for the poorer reader
- □ <u>Sentence-by-sentence (CWPT)</u>
  - Partners take turns reading sentence by sentence
  - Reread with other student starting first
  - Encourages attention and error correction

#### Findings from our Fluency Research

#### Interventions in Third Grade

- □ Morphemes
- □ BEST
- Rules for combining morphemes
- Comprehension strategies
- □ Continue fluency practice, if needed
- Generating justifications, finding evidence in text

### Morphemes

- □ The meaningful parts of words
  - Improves decoding
  - Improves with spelling
  - Reinforces word meanings

### Teaching Morphemes...

(The meaningful parts of words)

- □ "not"
  - Un, dis, in, im (disloyal, unaware, invisible, imperfect)
- □ "excess"
  - Out, over, super (outlive, overflow, superhuman)
- □ "number"
  - Uni, mono, bi, semi (uniform, monofilament, bicolor, semiarid)
- □ "in the direction of"
  - Ward (skyward, northward)
- □ "full of"
  - Ful (merciful, beautiful)

### English/Spanish Cognates from Morphemes

- □ Google for lists
- Praise student use of cognates
  - Adult/adulto
  - Atmosphere/atmosfera
  - Chimpanzee/chimpancé
  - Enter/entrar
  - Intelligence/inteligencia

#### Inter-- means between

- □ What does *inter*-- mean?
- □ So what does *interstate* mean?
- □ What's a word for a highway between states?
- □ What would *interperson* mean?
- □ So what are *interpersonal skills*?

#### BEST (or DISSECT) for Multisyllabic Words

- □ Break apart
- □ Examine the root
- □ Say the parts
- □ Try the whole thing

### **BEST** Examples

- □ Understandingly
- □ Uncomfortable
- □ Strengthening