Foundations of Learning to Read: Still of Paramount Importance!

PaTTAN Harrisburg

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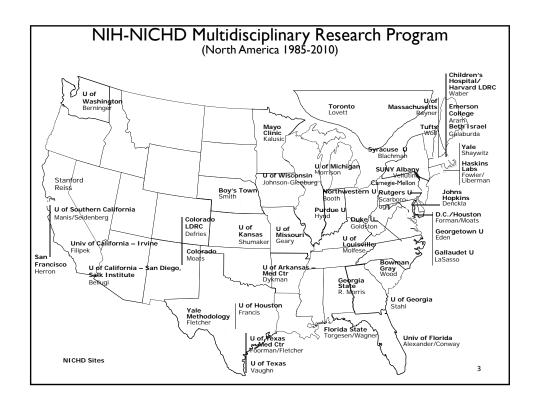
The Science of Reading!

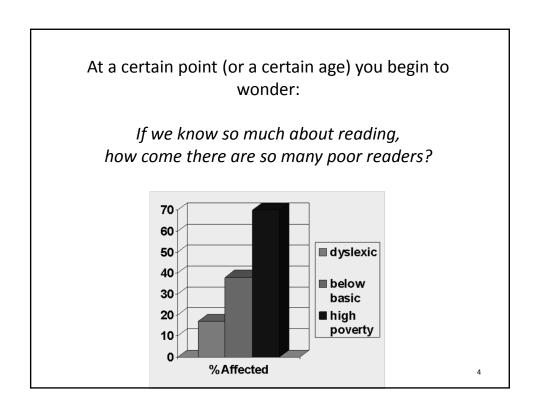
Much is known about:

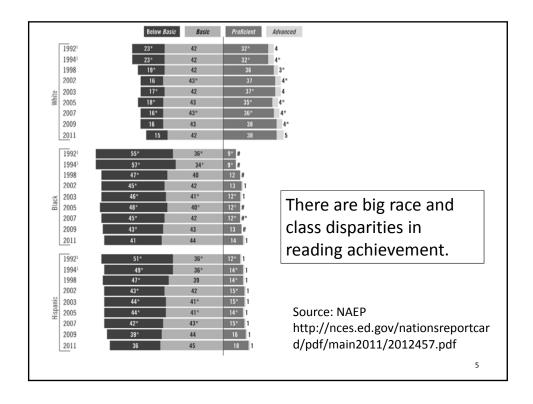
- -how a proficient reader reads
- -how novice learners acquire reading skill
- -what the brain is doing to support reading
- -what causes reading difficulties

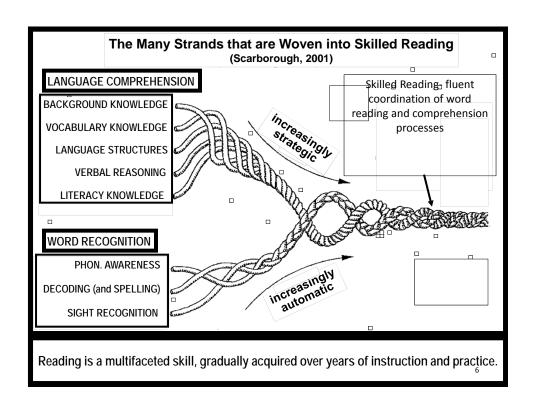
...and many other aspects of reading

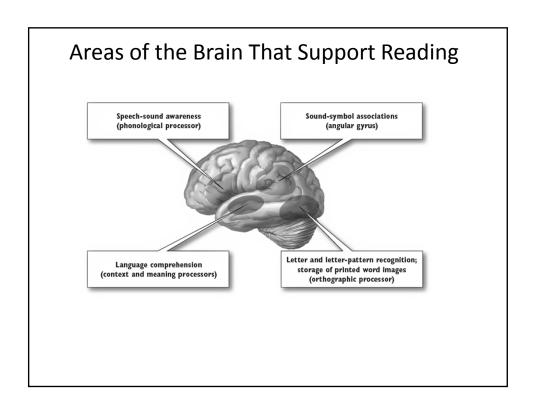
Of course, much remains to be learned! (Seidenberg, 2014)

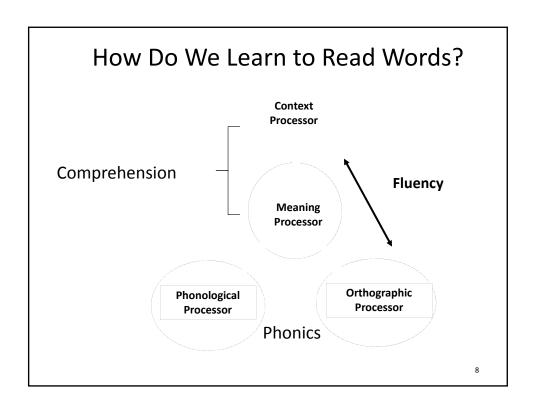




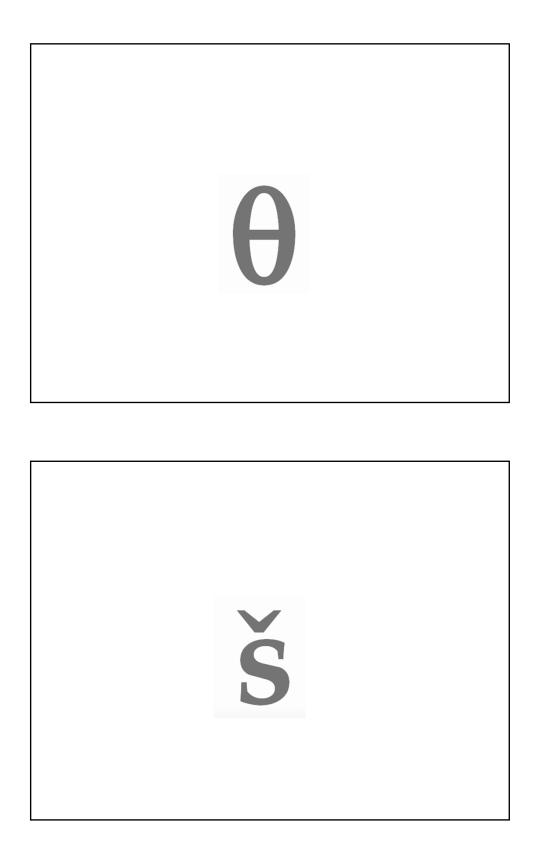




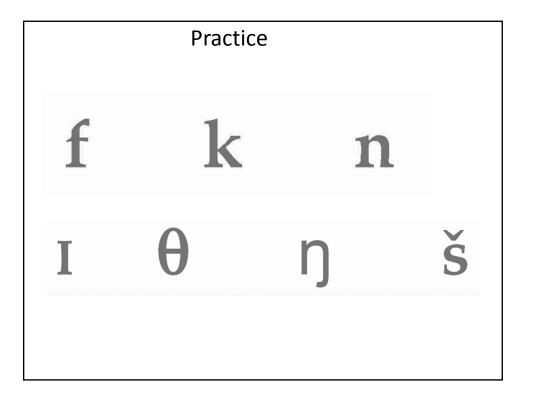




What Sound Does Each Letter Represent?







Blend Sounds Into Words

In, θin, θiŋ, fišfin, šin, θikkin, kiŋ, kikkiŋk, iŋk, fiŋk, θiŋk

"Sight" Words

ænd ə ðə waz

Read Phrases and Sentences

- 1. θ_{1} k ænd θ_{1} n
- 2. waz a fink
- 3. θ ıŋk ın ıŋk
- 4. kık ðə šın
- 5. kiŋk <u>ðə</u>θiŋ
- 6. fišiŋ waz ə kik.
- 7. <u>ðə kin waz</u> fišin.
- 8. $\underline{\delta \theta}$ kiŋ $\underline{w}\underline{\lambda}\underline{z}$ θ in.
- 9. $\delta \theta$ fiš fin waz θ in.
- 10. <u>waz δο</u> θιη ο fiš?

Read the Story

ða kin waz θinkin av fan ænd wentid tu fiš. "aj went a θik fiš," θet ða kin. ða kin ket a θin fiš. "aj wiš ða fiš waz θik," wišt ða kin. ða kin šekt ða fiš ænd kat ða kink in ða θin. ða fiš winkt tu ða kin!

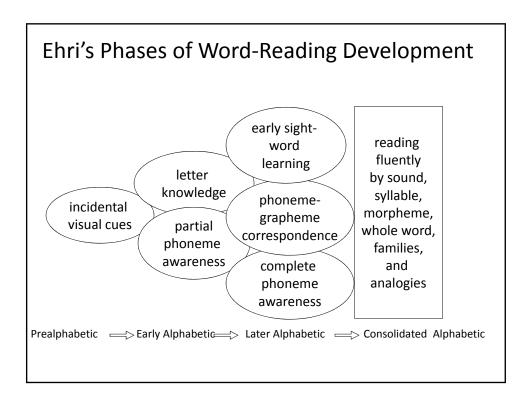
Printed Word Recognition: The "Layer Cake" of Language

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astro – naut (morpheme)
as-tro-naut (syllable)
a-s-t-r-o-n-au-t (grapheme)
a-s-t-r-o-n-a-u-t (letter)
[ ă s t r ə n ŏ t] (phoneme)
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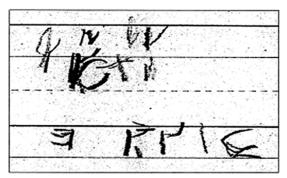
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Chall's Reading "Stages": Reading is a Moving Target, Changing Through Development

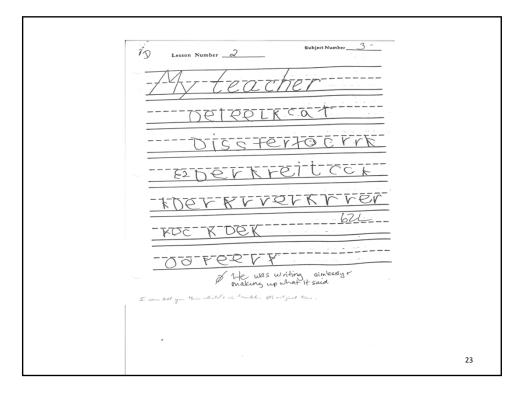
- Prereading; Prealphabetic (Pre-K)
- Initial Reading or Alphabetic Decoding (K-1)
 - -early phonetic
 - -later phonetic
- Confirmation and Fluency (2-3)
- Reading to Learn (4-6)
- Multiple Points of View (7 +)
- Construction and Reconstruction (5)



Prealphabetic Writing



Beginning kindergartener, September.

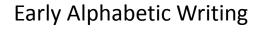


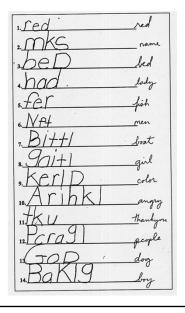
The Early Alphabetic Phase

- Identifies first consonant in word; needs to learn to segment all sounds.
- Relies on letter names to derive the soundsymbol match; needs to learn sounds <u>and</u> letter names, and the difference.

$$\underline{Y}EL = will \quad WO\underline{H} = watch$$

 Confuses similar words such as horse and house, lake and like; needs to decode the whole word, left to right, with sound-symbol links.





Sounds in Letter Names

A /ā/ J /j/ /ā/ S /ĕ/ /s/ B /b/ /ē/ K /k/ ā/ T /t/ /ē/ C /s/ /ē/ L /ĕ/ /l/ U /y/ /ū/ M /ĕ/ /m/ V /v/ /ē/ D /d//ē/ N /ĕ/ /n/ E /ē/ **W** /d/ /ŭ/ /b/ /l/ /y/ /ū/ F /ĕ/ /f/ 0 /ō/ X /ĕ/ /k/ /s/ G /j/ /ē/ $P/p/\bar{e}/$ $Y/w/\bar{i}/$ H /ā/ /ch/ $Q/k//y//\bar{u}/Z/z//\bar{e}/$ R /ar/ I / ī/

Complexities of Letter-Sound Correspondences

1. Letter names that do <u>not</u> have the sounds that the letters represent:

2. Letter names and sounds most likely to be confused:

3. Sounds (13/44) that are not in any letter name:

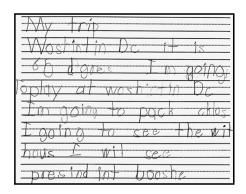
Later Alphabetic Phase

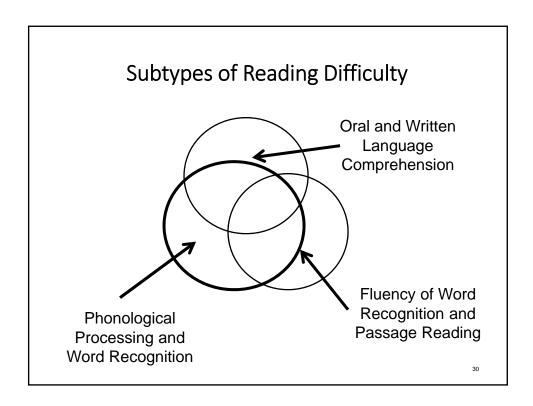
- Can sound out regular one-syllable words; can increase speed of whole word recognition once decoding is accurate.
- Phoneme awareness is well established.
- Phonetic spelling is a fine art; can represent almost every sound with a logical letter choice.
- Should progress to spelling patterns, words with more than one syllable, meaningful parts of words, and basic sight vocabulary.

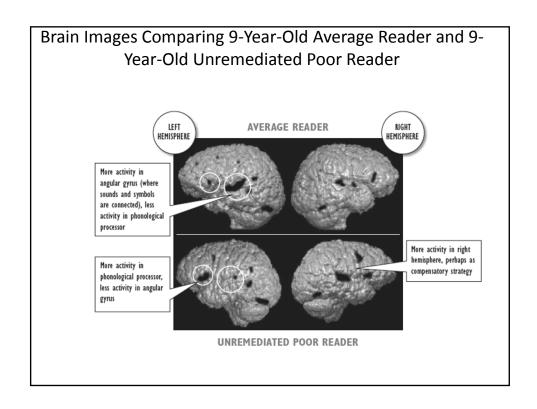
Later Alphabetic Phase Writing

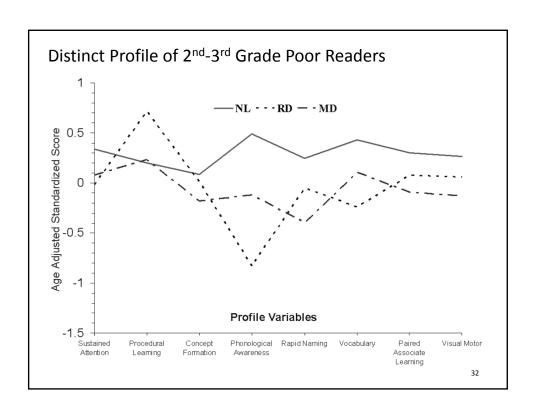
My trip

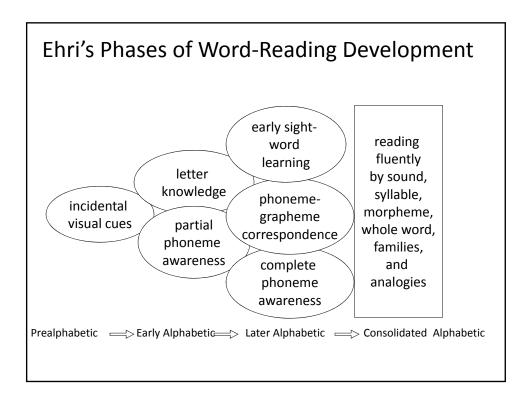
Woshintin Dc it is 85 dgres Im going toplay at washigtin Dc Im going to pack chlos I going to see the wit hous I wil see presind int booshe







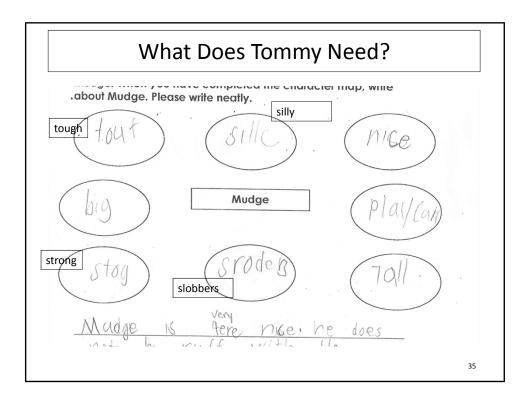




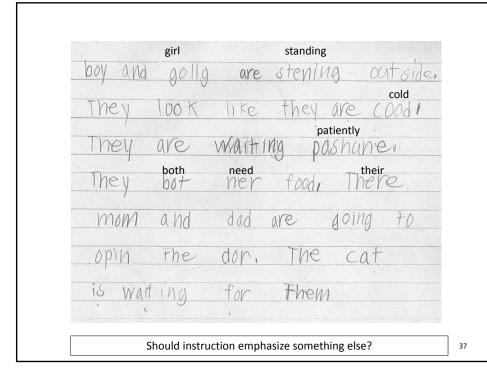
Fluency/Orthographic Memory Problem

900	(go)
ann	(and)
yel	(will)
hme	(him)
coc	(cook)
lot	(light)
jrs	(dress)
reh	(reach)
ntr	(enter)

- 1. Find the letter that this student uses for the /w/ sound. Why did she choose that letter?
- 2. Find the letter she uses for the /ch/ sound. Why did she choose that letter?
- 3. What does she think is the first sound in the word dress? Does that seem like a logical choice?
- 4. How does she spell long-vowel sounds?



Mudge is fere nice he does not be ruff with Henry, he is vere play full. He is land which He stands. He sloder a all the stands. He sloder a	
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Tommy's Progress Report, Special Services

- Independent reading level "12" on the DRA
- Gained 3 levels since September
- Instruction has focused on nonfiction, mystery, personal narratives, chapter books
- Identification of story elements, 80%
- Can judge whether the text makes sense
- Knows 100 2nd grade sight words
- Working on adjectives and verbs
- Spelling lessons on long vowel patterns, homophones, vowel teams, two syllable words, syllable division, r-controlled vowels, and inflectional suffixes
- Uses a spelling dictionary to look up words

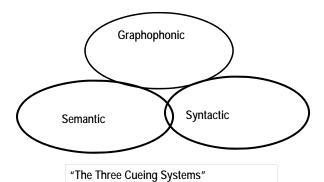
Basic Question: Are Meaning-Emphasis Programs the Most Effective?

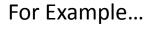
Common beliefs/practices associated with meaning-emphasis programs:

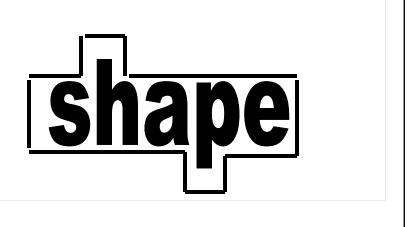
- Phoneme awareness instruction is "over" by 1st grade; phonics instruction is "over" by 2nd
- Reading is primarily visual
- Phonics instruction is harmful for good readers
- Early emphasis on "higher level" language skills will accelerate reading development

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Unsupported Conceptual Models



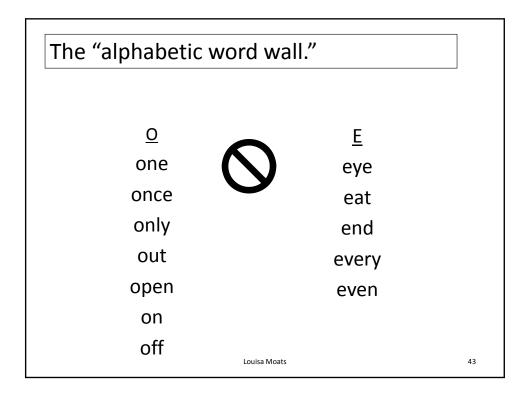


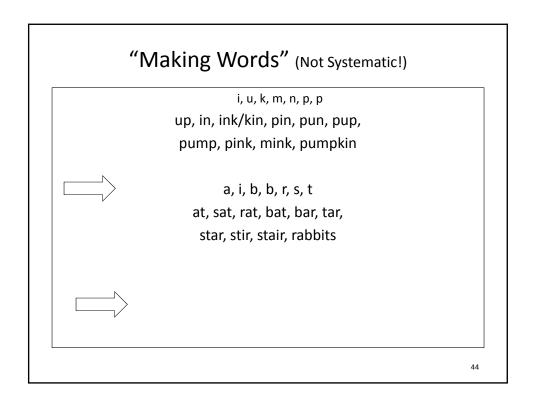


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Word Recognition Depends On Phoneme-Grapheme Mapping







Unfortunate consequences, continued...

- "Phoneme awareness" doesn't have to focus on phonemes
 - syllable counting
 - rhyming
 - matching a first sound
- Phoneme awareness doesn't need to be directly assessed
 - "running records"

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The role of context...

- Context does not drive word recognition.
- Context is useful for deciphering the meanings of unknown words, once they are named or recognized.

(Perfetti, 2011)

Misuse of context in instruction...

• "....Don't know that word? Well just keep reading and see what might make sense here..."



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What Works? Multi-component Lesson Framework (1)

- "Sound warm-up" phoneme awareness
- Direct, explicit teaching of word or language concept (phonics, etc.)
 - Modeling
 - Guided practice
 - Supported independent practice
 - Application in context



Multi-component Lesson (2)

- Fluency development
 - speed drills
 - repeated reading
 - Partner work
- Vocabulary building
- Oral and silent text reading for comprehension, including sentence level work
- Spelling and writing