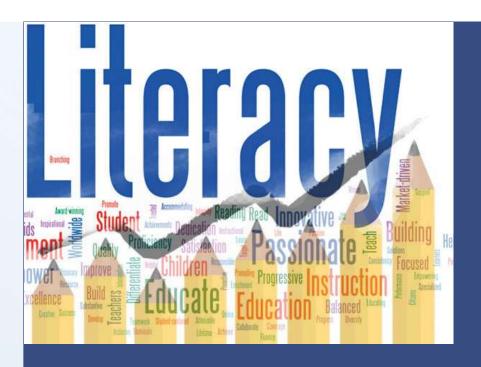


# Reading Development & Dyslexia

Gabrielle Wilcox, PsyD, NCSP, RPsych Sara Peden, MEd, RPsych October 27, 2019



#### • US

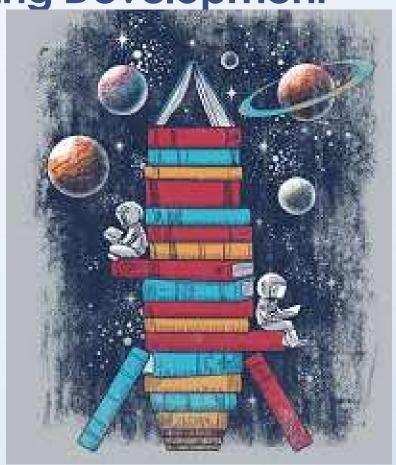
-27% of HS seniors below basic

#### Canada

-48% ofCanadian16+ arebelow basic

Canada Literacy Foundation, 2008; , Shaywitz & Shaywitz, 2008

**Reading Development** 



Reading IS Rocket Science

#### Pre-Reading Skills

Language

**Print Awareness** 

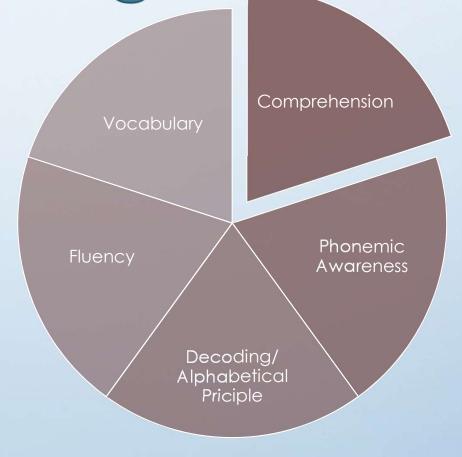
Print Motivation

Letter Knowledge

Narrative Skills

Phonemic Awareness

# The Big Five



#### Phoneme

 the smallest sound unit of language (/b/, /th/, /a/)

#### Phonemic Awareness Definitions

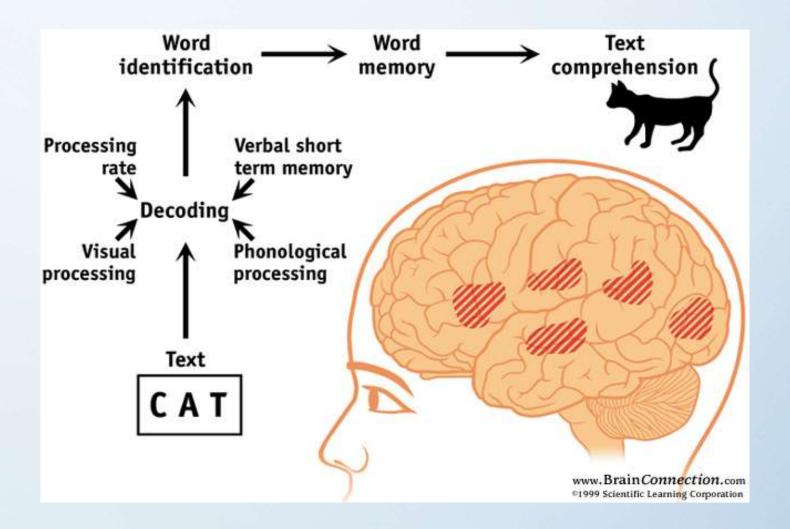
#### Onset-Rime

- Onset part of word before the vowel (<u>h</u>ot); not all words have an onset (e.g., on, all)
- <u>Rime</u> the part of the word from the vowel on (hot)

### How Many phonemes are in fox?









#### "Stages" of Phonemic Awareness

#### **Blending**

• /c/ /u/ /p/ = cup

#### Phoneme segmentation

• Cat = /c/ /a/ /t/

#### Phoneme deletion

• Say beetle without the /I/ = beet

#### Segmentation substitution

• Change the /dr/ in drink to /s/ = sink

# "Stages" of Phonemic Awareness

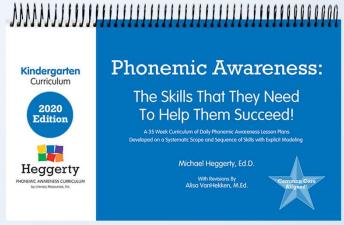
Phonemic Awareness Activities and Resources

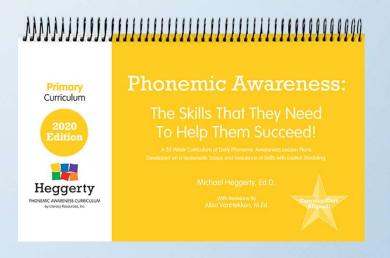
# Equipped for Reading Success

A Comprehensive, Step-by-Step
Program for Developing
Phonemic Awareness and
Fluent Word Recognition

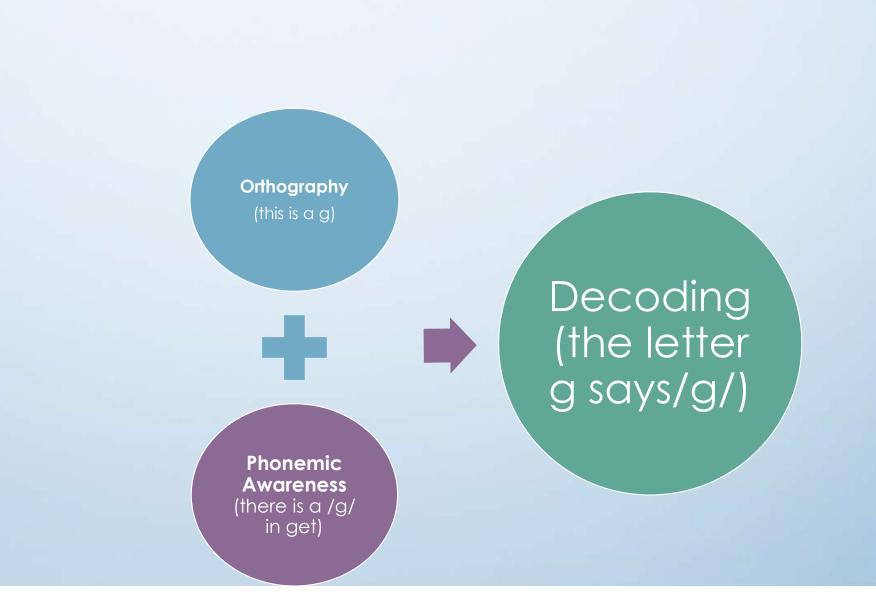


David A. Kilpatrick, Ph.D.

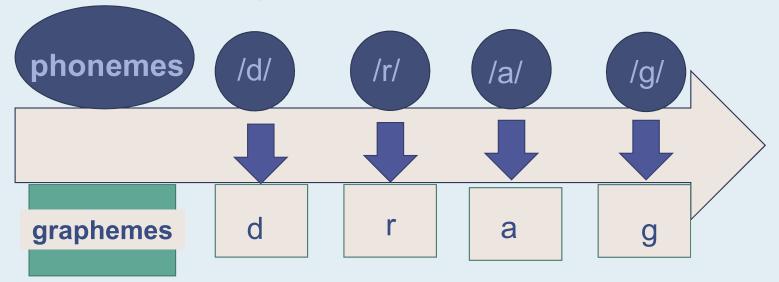




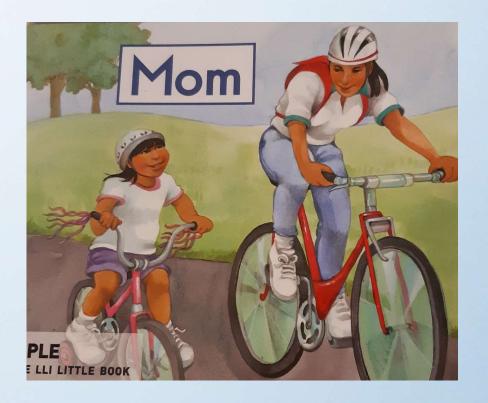




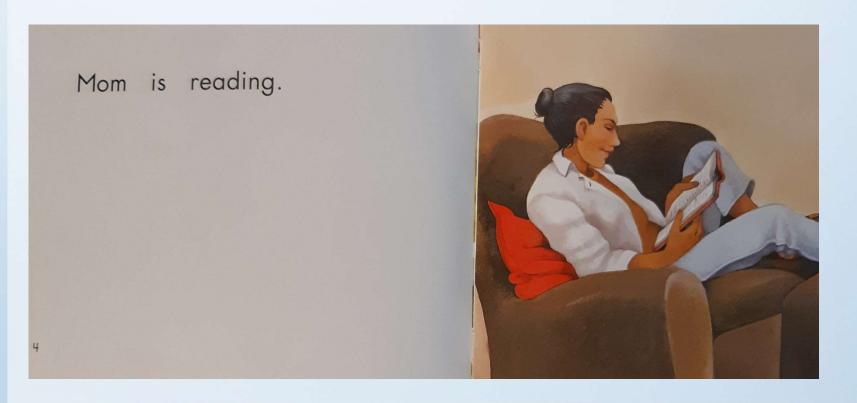
#### **Breaking the Code**



- Levelled texts Fountas and Pinnell, Guided Reading etc.
- Your child is reading Level A text or Level H or Level R (A-Z)
- Levelled texts predictable texts; multi-cuing









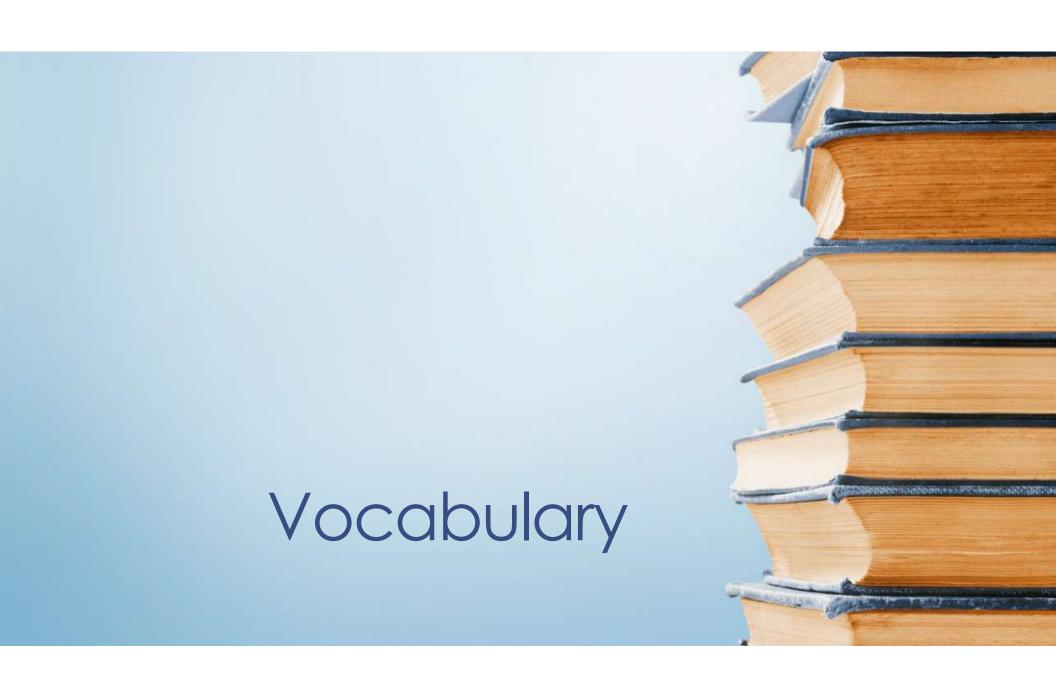


 Decodable texts start with a few connections between letters and sounds, and gradually increases the number and connection of those connections.

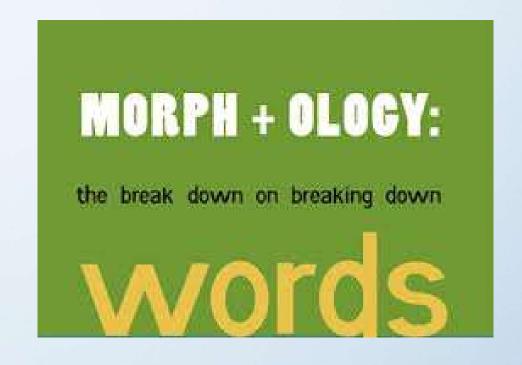


#### "Sight" Words

- Exceptions are not arbitrary patterns that need to be memorized individually
  - Have = had, has, having
- Most "sight" words are high frequency
- English is statistical rather than rule-based











KEEP MORPHOLOGICAL STRUCTURE RATHER THAN FOLLOWING THE ALPHABETIC PRINCIPLE BORROWING WORDS FROM OTHER LANGUAGES HAS CONTRIBUTED MUCH TO THE BROKEN ENGLISH RULES

Role of Morphology



SIGN, SIGNAL, SIGNATURE

#### Examples of Morphology in school

Morpheme

Photo

Therm

Graph

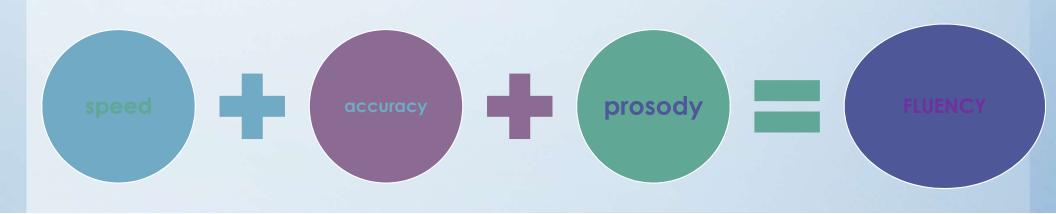
Related words

Photography Photograph

Thermos Thermal

Autograph, Biography, Bar Graph

#### **Fluency**



Reading Fluency Problems

Slow decoding

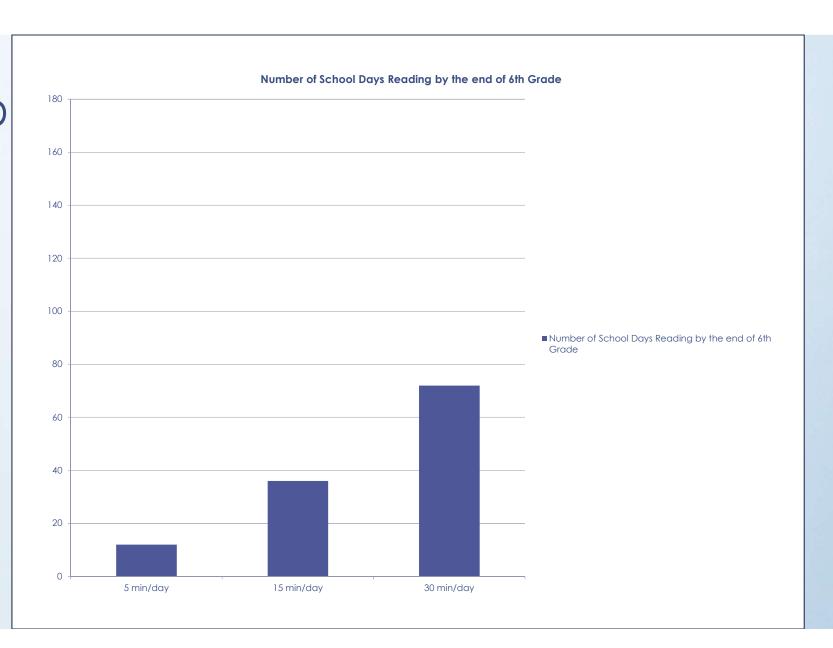
Skipping words/sounds

Adding words/sounds

Substituting words/sounds

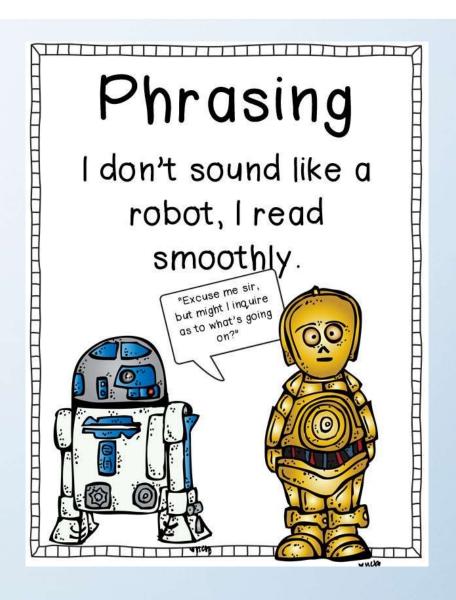
# Importance of Independent Reading

(4 days/week)	5 minutes/ day	15 min/day	30 min/day
WEEK	20 minutes	I hour	2 hours
MONTH	1 hour 20 minutes	4 hours	8 hours
SCHOOL YEAR	12 hours	36 hours  U.S. Department of Educat	72 hours ion, 1999

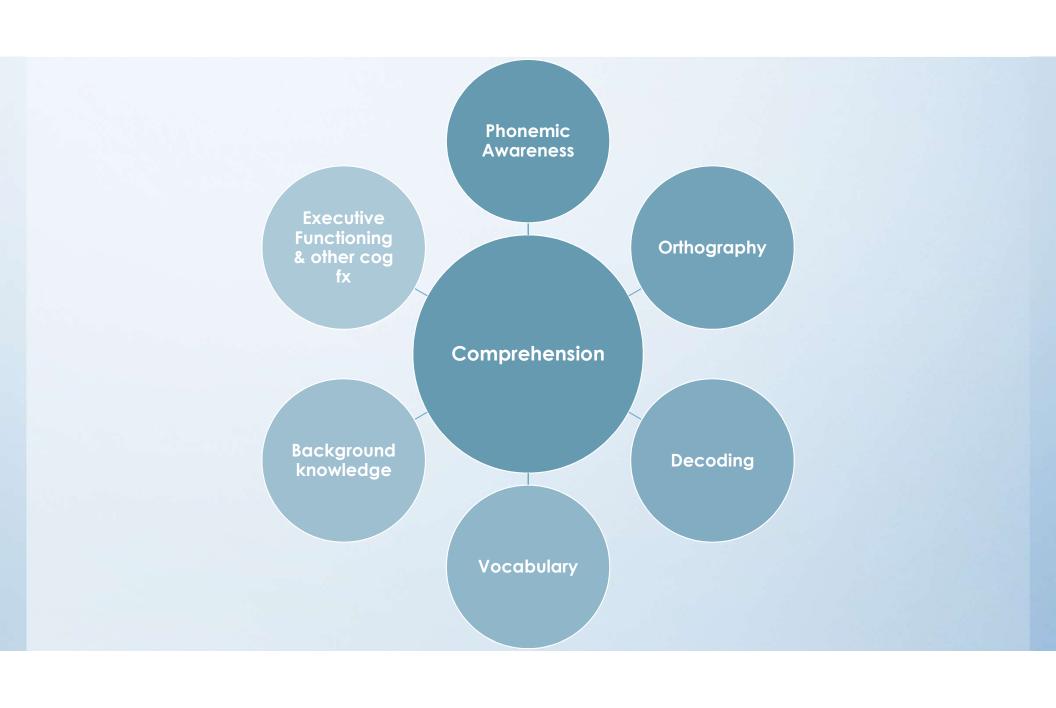


#### Prosody

- Expression and volume
- Phrasing
- Smoothness
- Pace







# Dyslexia Reading Disability



- Reading disabilities are underdiagnosed and undertreated
- Most common SLD = over 80% of kids with an SLD have a RD
- Identifying and remediating reading difficulties is more important that diagnosing dyslexia
- Dyslexia develops, so the best treatment is prevention

Seidenberg, 2017; Shaywitz & Shaywitz, 2008

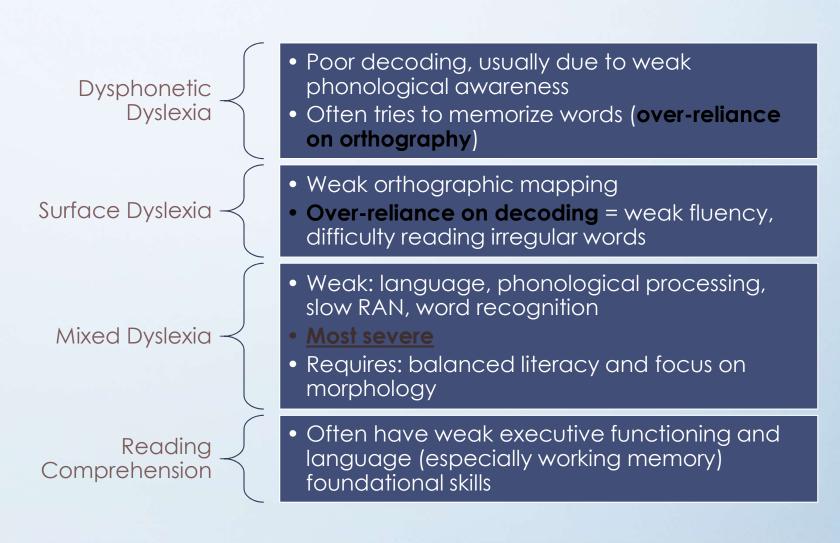
#### Heritable

Having a parent or sibling with dyslexia increases your risk

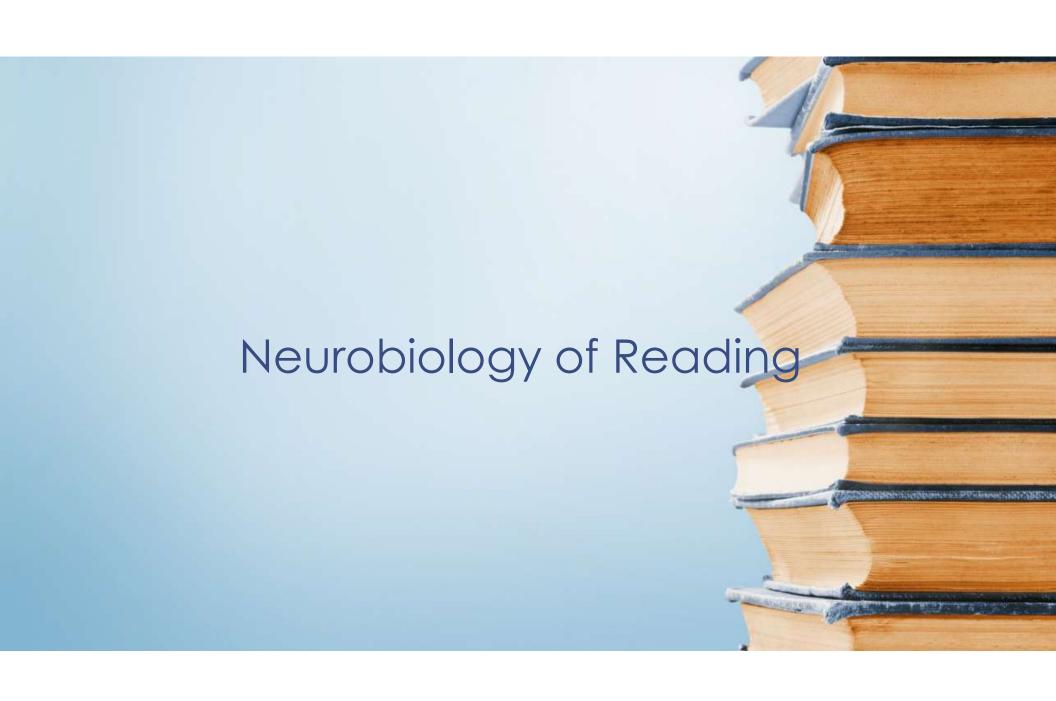
More for families with higher SES

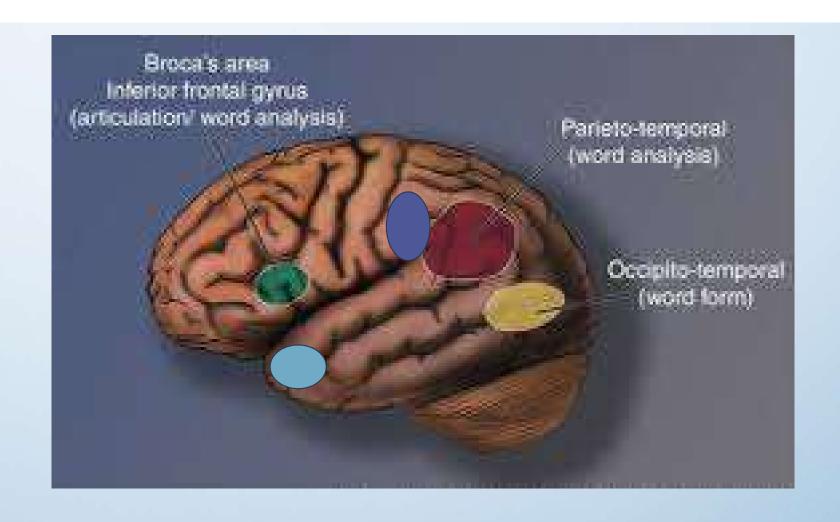
Suggests importance of other environmental factors for those with lower SES

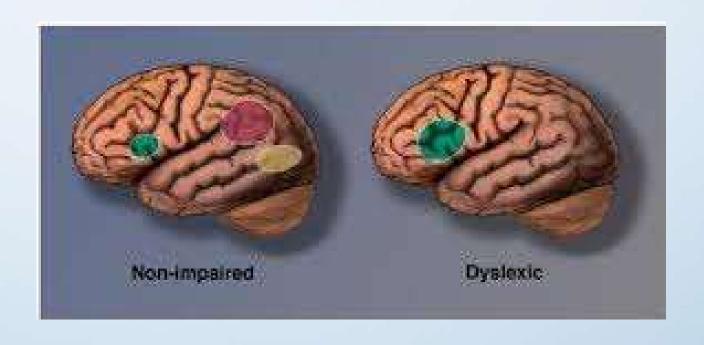
#### Four Types of Dyslexia



#### Dyslexia versus Reading Disability





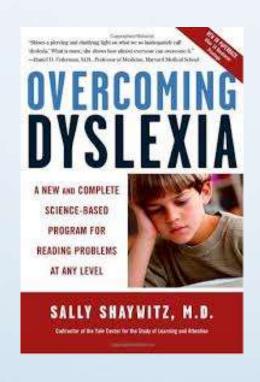


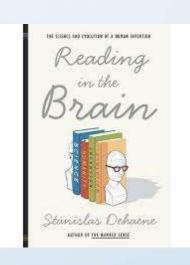
Shaywitz & Shaywitz, 2008 p. 1337

#### brain function

"Children who received the experimental intervention not only improved their reading but also demonstrated an increase in activation in the anterior system as well as in the partietotemporal and occipitotemporal systems, compared to their preintervention bring activation pattern."

Shaywitz & Shaywitz, 2008; p. 1340





IOW TWO THINGS ABOUT
IE MARK SEIDENBERG IS
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ADING THESE WORDS IN
IOW THAT YOU ARE AN E
IU HOW WE READ, THE S
WHY SO MANY CAN'T, I
W AND WHAT CAN BE YOU
ERY DONE ABOUT IT DAY
HETHER YOU WANT TO O

#### Resources