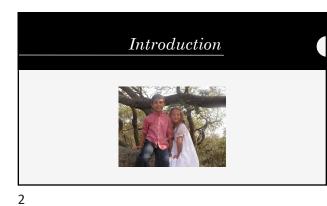
Jenny Cantrell, M.Ed., CALT, LDT, Educational Diagnostician

# **DYSLEXIA AND** ILLITERACY: STRUCTURED LITERACY AND THE SCIENCE OF READING



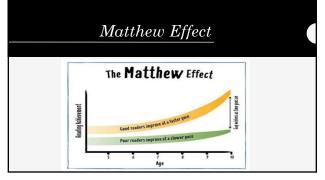
## Reading and the Numbers

- 2/3 of U.S. 4<sup>th</sup> graders are not proficient in reading this data is from 2019 from the National Assessment of Educational Progress
   9 op percent of high school dropouts struggled with reading in third grade
   Children who do not read on grade level by the end of 3<sup>rd</sup> grade have only a 1 in 8 chance of ever catching up and are 4 times more likely to drop out of school
   1 in 3 Houston adults is functionally illiterate

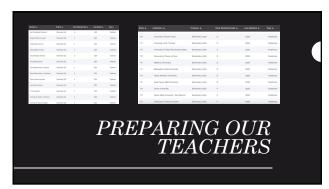
- 72% of Texas 3<sup>rd</sup> graders are not reading on grade level 85% of youth who interface with the juvenile justice system are functionally illiterate

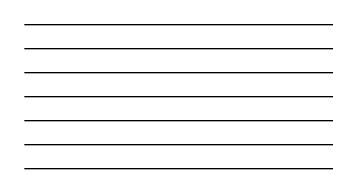
# What are the factors that affect reading?

- Vulnerable populations
- Ļ
- Learning disabilities/dyslexia
- Lack of proper teacher preparation in the science of reading
- Lack of evidenced-based instruction in schools Teaching reading is rocket science!









# Dyslexia

"Dyslexia is a specific learning disability that is neurobiological in origin. It is characterized by difficulties with accurate and/or fluent word recognition and by poor spelling and decoding abilities. These difficulties typically result from a deficiency in the phonological component of language that is often unexpected in relation to other cognitive abilities and the provision of effective classroom instruction. Secondary consequences may include problems in reading comprehension and reduced reading experiences that can impede growth of vocabulary and background knowledge (Lyon et al., 2003, p. 2)."

- 20% of the general population has dyslexia
- 4.49% of Texas public school children have been identified with dyslexia Houston – we have a problem!

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## Dyslexia and Prisons

- Approximately 80% of prison inmates are reported to be functionally illiterate
- Applicatilitiety operation proof interacts as reported to be calculated any interaction of the study of the struggled with reading comprehension
- State prisons currently do not screen for learning disabilities or ADHD. The federal government passed the First Step Act in 2028 that requires all prison inmates to be screened for dyslexia (Federal Prison Only)
   ADHD is also prevalent in the prison population
- The incidence of Dyslexia is disproportionately higher within the prison system than in the general
  population

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### The Preschool Years - Trouble learning common nursery rhymes, such as "Jack and Jill" · Difficulty learning (and remembering) the names of letters in the alphabet · Seems unable to recognize letters in his/her own name Mispronounces familiar words; persistent "baby talk" Doesn't recognize rhyming patterns like cat, bat, rat A family history of reading and/or spelling difficulties (dyslexia often runs in families) © Sally Shaywitz, Overcoming Dyslexia, p. 122 DYSLEXIA

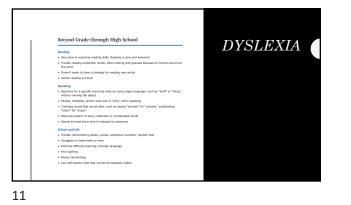
#### Kindergarten & First Grade

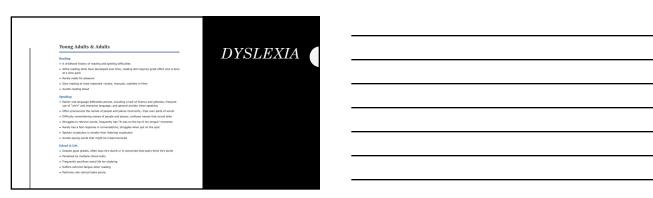
#### Difficulties

- Difficulties Reading errors that show no connection to the sounds of the letters on the page—will say "puppy" instead of the written word "dog" on an illustrated page with a picture of a dog Does not understand that words come apart

- Complains about how hard reading is; "disappears" when it is time to read
   A history of reading problems in parents or siblings
   Cannot sound out even simple words like *cat, map, nap*
- Does not associate letters with sounds, such as the letter b with the "b" sound

# DYSLEXIA



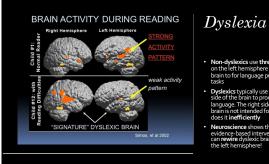


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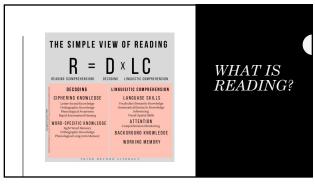
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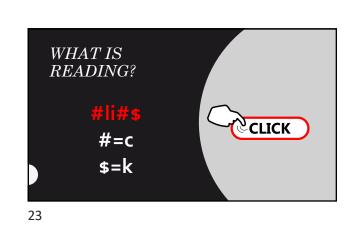




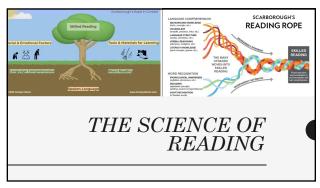




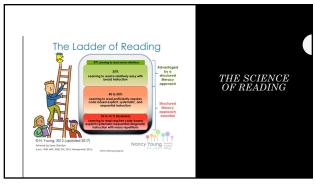




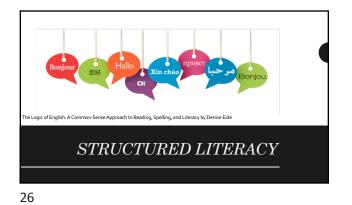


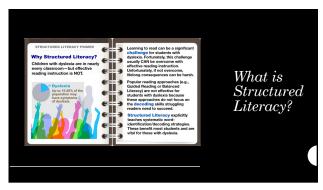












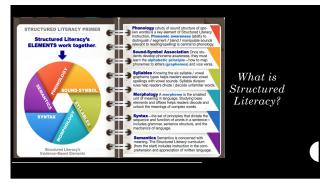


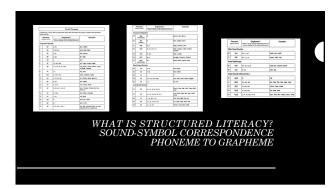
#### What is Structured Literacy?

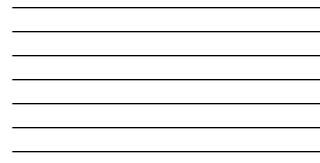
 Must go in order – easy to more complicated and the concepts build upon each other.

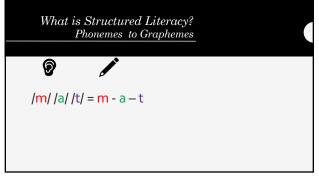
The teacher must teach explicitly (direct teaching)- no room for assuming or guessing give opportunities to practice over and over. Use multisensory techniques tactile/kinesthetic/visual/auditor

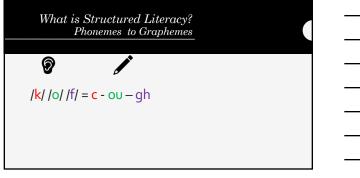
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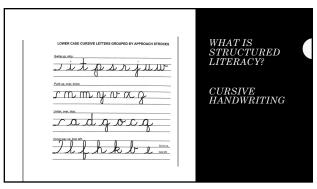


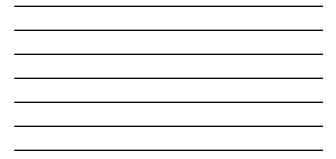


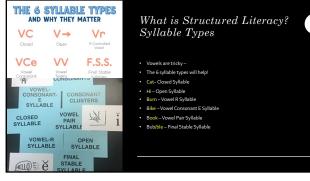
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What is Structured Literacy? Orthography

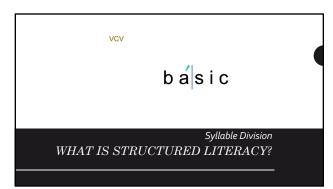
kelp kite sky Spelling Pattern: When the (k) sounds comes before e , i, or y, spell with a k







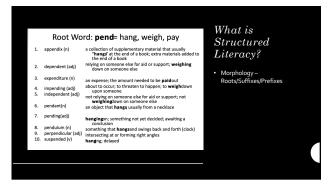




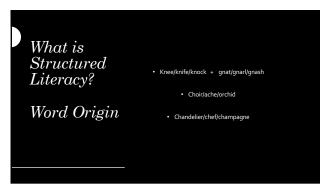
#### What is Structured Literacy?

# Language Comprehension Morphology - Anglo-Saxon/Latin/Greek/Other Languages Roots/Prefixes/Suffixes Syntax Grammar - Structure of Language Semantics Vocabulary Multiple Meaning Web Card Pyramids

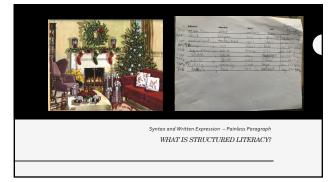
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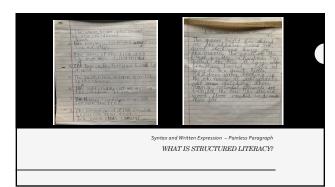


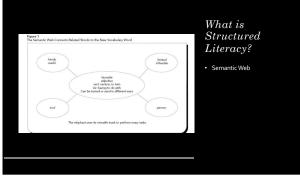
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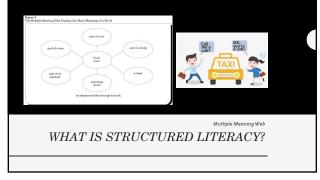


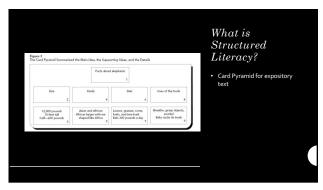
















#### What is Structured Literacy?

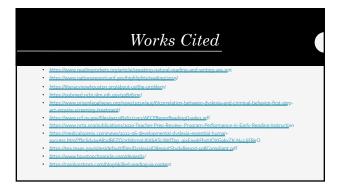
 Structured Literacy. when taught using all the principles and elements, teaches dyslexic children how to read.

We have the answer on how to teach all children to read – and the answer is structured literacy!

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