

Dyslexia: What to Watch for and How to Help

Wisconsin Literacy, Inc. February 3, 2020

Presenter



Kelly Kuenzie Center Director Children's Dyslexia Center-Madison



Polls

What is your role with your literacy organization?

Indicate your training background.



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Children's Dyslexia Center-Madison Madisoncdc.org

Center Director-Kelly Kuenzie

February 2020



OUR MISSION

- Provide free, high quality multisensory reading and written language tutoring to children 7-18
- Promote and encourage the education of professionals
- Train and certify professionals in our IMSLEC-accredited courses
- Raise public awareness of Dyslexia



What is dyslexia?

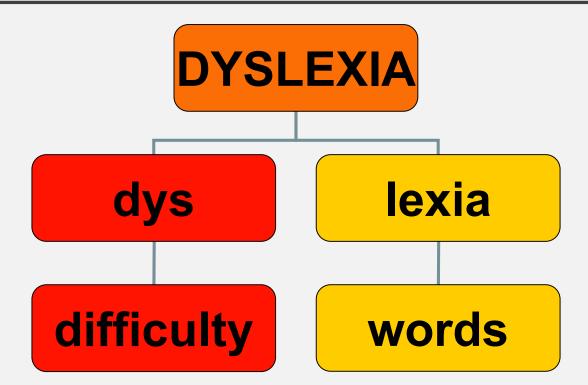
How can you identify adult learners with dyslexia and what are some of their common traits?

What does effective reading instruction for adult learners with dyslexia look like?

Center Director- Kelly Kuenzie 02/2020











one specific type of learning disability

- may exist along with other conditions
- not synonymous with the broad term learning disability

(eligibility category for special ed)

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Federal Disability Definitions Title 34: Education, Sec. 300.8 Specific Learning Disability

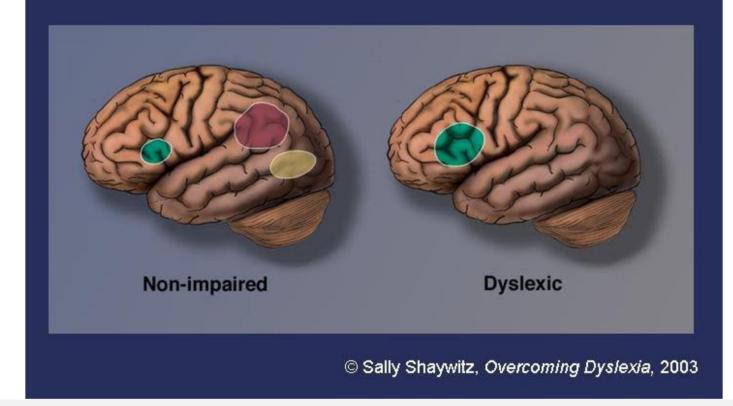
In General - The term "specific learning disability" indicates a disorder in one or more of the basic psychological processes involved in understanding or in using language, **spoken or written**, that may manifest itself in the imperfect ability to listen, think, speak, **read**, **write**, **spell**, or to do mathematical calculations.

Disorders Included - Such term includes such conditions as perceptual disabilities, brain injury, minimal brain dysfunction, **dyslexia**, and developmental aphasia



"...NEUROBIOLOGICAL IN ORIGIN"

Neural Signature for Dyslexia: Disruption of Posterior Reading Systems





"...unexpected in relation to other cognitive abilities and the provision of effective classroom instruction"

not predicted by

age

cognitive ability

• other academic strengths

IT IS CHARACTERIZED BY DIFFICULTIES WITH ACCURATE AND/OR FLUENT WORD RECOGNITION, POOR SPELLING ABILITY, AND POOR DECODING ABILITY.

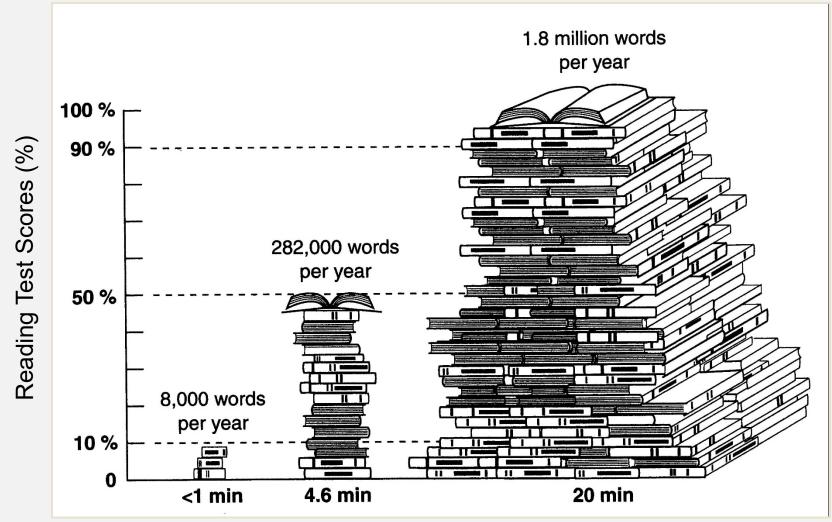
- Word recognition: here/her from/form to/of
- Decoding nonsense words: tasp fibe dard
- Fluent reading: labored, choppy
- Spelling: frequent misspellings

"...secondary consequences may include problems in reading comprehension and reduced reading experience that can impede growth of vocabulary and background knowledge"

Recognizes struggling readers

- read less
- practice less
- learn fewer vocabulary words

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Time spent reading each day

Overcoming Dyslexia, 2003, Sally Shaywitz, pg. 107

COMMON SIGNS OF DYSLEXIA HIGH SCHOOL & ADULT

✓ AVOIDS READING BOOKS INDEPENDENTLY

✓ CONTINUES TO SPELL INCORRECTLY

✓ AVOIDS WRITING WHENEVER POSSIBLE

✓ FINDS UNIQUE WAYS TO COPE WITH READING & WRITING TASKS

✓ GUESSES WHEN READING WORDS IN ISOLATION

✓ HAS DIFFICULTY SEQUENCING OR ALPHABETIZING.

✓ LACKS AWARENESS OF SOUND TO SYMBOL RELATIONSHIP OR SPELLING PATTERNS

Adapted from: Bridges to Reading, Parents' Education Resource Center

CLUES AN ADULT LEARNER HAS DYSLEXIA

- Anxiety when in a school setting or reading aloud
- Persistent anxiety and depression
- ✓ Volatile or avoidance behavior
- ✓ Unstable work history
- \checkmark Tires quickly when doing academic work.
- Takes much longer to take exams, fill out forms, follow directions.



Common Positive Characteristics of People with Dyslexia

"Unexpected weakness in a sea of strength"

- **Omega Content** Omega Content Omega Content
- C Artistic Ability
- **C** Visual-Spatial Orientation
- C Mechanical Ability
- ⊖ Athletics
- **Creative Problem Solving**



PEOPLE WITH DYSLEXIA

Galileo Galilei Leonardo DaVinci **Thomas Jefferson** John F. Kennedy **Bobby Kennedy** George Washington Woodrow Wilson Alexander Graham Bell Hans Christian Andersen Charles M. Shulz William Butler Yeats

Agatha Christie John Lennon Nikola Tesla Lewis Carol Pierre Curie Walt Disney Thomas Edison Henry Ford **Babe Ruth** Steven McQueen Pablo Picasso

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"I was, on the whole, **considerably discouraged** by my school days. It was not pleasant to feel oneself so completely outclassed and left behind at the beginning of the race." Sir Winston Churchill

The looks, the stares, the giggles... I wanted to show everybody that I could **do better** and also that **I could read**. Somebody asked me if I could go back and start again with a different brain, would I.
Years ago I thought yes, I would, but now I know I wouldn't. Because whatever challenges I had in school, I guess they forced me to where I am today. So I now see them as an asset. Henry Winkler



WHY DIAGNOSE DYSLEXIA?

- 15-20% of the population has dyslexia according to the NIH
- Properly identifying helps determine the appropriate instructional approach to be used.

•Qualify for accommodations and services

•48% of incarcerated adults have dyslexia (Texas research)



DIAGNOSTIC OPTIONS

- Online informal screening- free but will not provide documentation for accommodations. dyslexiaida.org
- Ask general practitioner for a referral to a psychologist
- A battery of tests are required for a proper diagnosis. IQ requirements have recently changed
 - Doctor's background and experience may affect their choice of standardized tests and interpretation
- Private Diagnostic- most thorough and most expensive.
- UW Educational sciences, Educational and Psychology training center diagnosis for UW students and children.
- Non-profits such Sonas Behavioral Health, who specialize in counseling and diagnosing adults.



HELPFUL DOCUMENTATION IF LEARNER IS GOING IN TO BE DIAGNOSED

Language learner can offer any documentation to the diagnostician. A signed release of information form would be needed otherwise. Adults must agree to share information.

- I. Keep written work
- 2. Document persistent dyslexia clues and avoidance behaviors.
- 3. Document family history of learning disabilities

IF YOU HAVE DOCUMENT DISABILITY YOU HAVE LEGAL RIGHT TO REASONABLE ACCOMMODATIONS IN YOUR PLACE OF EMPLOYMENT

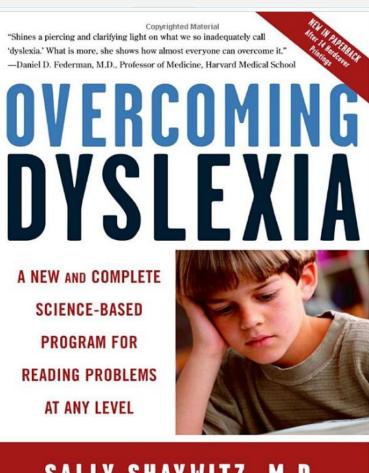
 "The Americans with Disabilities Act (ADA) prohibits employment discrimination on the basis of workers' disabilities. The ADA also requires employers to provide reasonable accommodations -- changes to the workplace or job -- to allow employees with disabilities to do their jobs. (For more information on the ADA, see <u>Disability Discrimination in the Workplace: The</u> <u>ADA</u> and <u>ADA Amendments: More Protections Against Disability</u> <u>Discrimination</u>.)"

Source: https://www.nolo.com/legal-encyclopedia/free-books/employee-rightsbook/chapter7-8.html

WHAT IS A REASONABLE ACCOMMODATION?

- making existing facilities usable by disabled employees—for example, by modifying the height of desks and equipment, installing computer screen magnifiers, or installing telecommunications for the deaf
- modifying exams and training material—for example, allowing more time for taking an exam, or allowing it to be taken orally instead of in writing
- providing speech to text and text to speech applications. Note taker in classes or meetings.
- scheduled breaks
- hiring readers or interpreters to assist

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SALLY SHAYWITZ, M.D.

Codirector of the Yale Center for the Study of Learning and Attention

pyrighted Material

Dyslexia is not curable but can be overcome successfully.

Requires specialized instruction and intervention

Dyslexics need to be taught to read in a different way



Effective

Instruction

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READING IS AN ACQUIRED SKILL

- The brain is hard-wired for speaking and listening
- The brain is not hard-wired for reading and spelling/writing
- Reading is not a natural process and is not a result of simple exposure to text, language or words.
- The process of learning to read rewrites the organization of the brain.
- The structure and transparency of the language interacts with the brain's ability to learn to recognize words automatically. English is complex and not transparent.
- Reading instruction is always brain based the development of reading proficiency is determined by how efficiently the key language areas of the brain are utilized – "hijacked" for reading skills.

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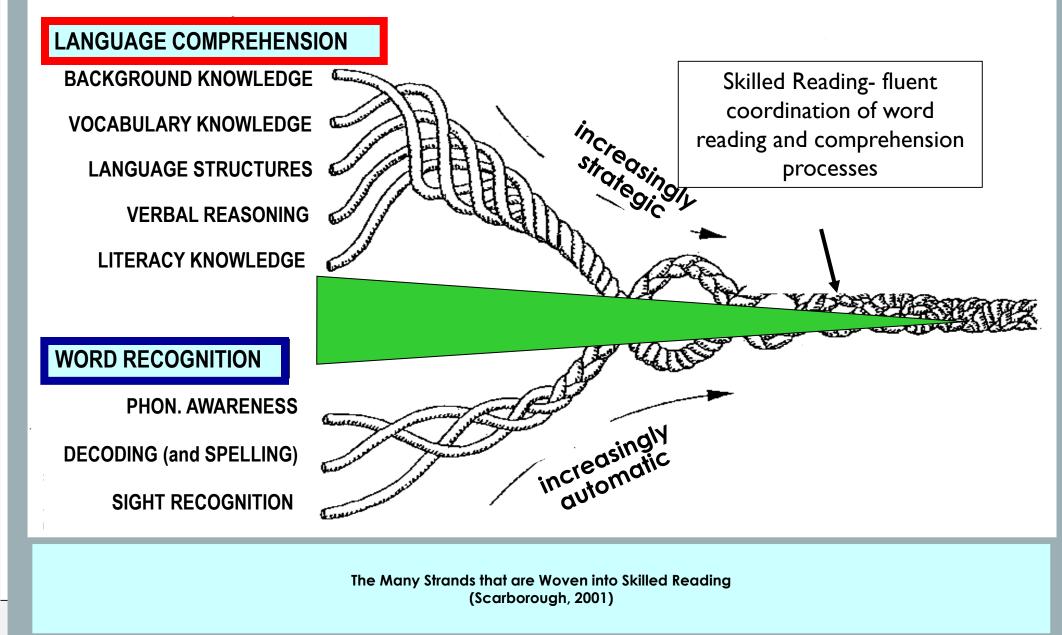
NATIONAL READING PANEL FINDINGS

Phonemic Awareness Phonics Fluency Oral Reading Vocabulary Comprehension

National Institute of Child Health and Human Development. (2000). *Report of the National Reading Panel. Teaching children to read: An evidence-based assessment of the scientific research literature on reading and its implications for reading instruction* (NIH Publication No. 00-4769). Washington, DC: U.S. Government Printing Office.

Children

The Many Strands that are Woven into Skilled Reading (Scarborough, 2001)



HELPFUL TERMS

- phonemes smallest unit of sound the changes meaning
- phonics letters on the page represent these sounds

 alphabetic principle the written words have the same # and sequence of sounds heard in the spoken word



Effective instruction

- Emotionally sound 85% success
- Systematic –build knowledge from
- Letters>phonemes>syllable>orthography>morphology
- Structured –one pattern at a time build from phonemes to words to sentences
- Sequential –most common to least common patters
- Cumulative –review what was taught and control word list to patterns taught.
- Multisensory connect auditory>visual>kinesthetic (hearing, seeing, mouth position, written form)

READING: WHERE TO START? SIMPLE TO COMPLEX

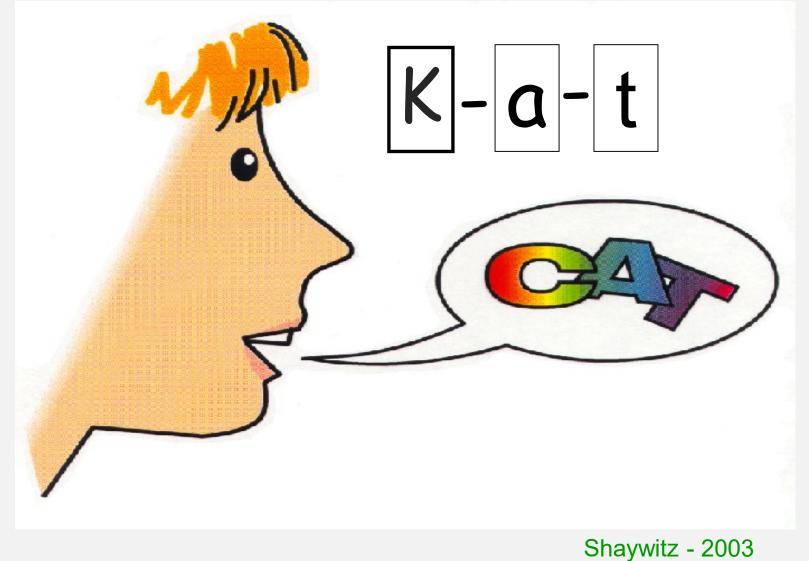
Alphabet Skills Handwriting **Decoding Skills** 26 letters, 44 sounds, 98 letters/letter clusters Fluency accuracy + rate + prosody **Phonological / Phonemic Awareness Spelling** spelling generalizations & rules **Comprehension Skills/Vocabulary Development** including syntax, semantics, morphology

THE SOUNDS OF ENGLISH

- There are 40-44 speech sounds (phonemes) in English
- ✓ Sounds are co-articulated
- ✓ first become aware of large chunks of sound, then smaller
 - Words in sentences
 - Syllables in words: /nap/-/kin/
 - Onset-rime in syllables: /b/-/ed/, /Fr/-/ed/
 - Phonemes (smallest units of sound)

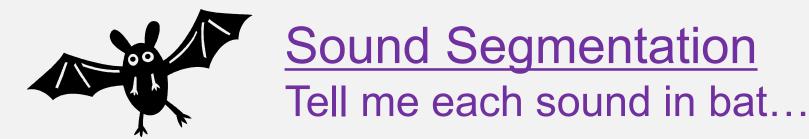


Phonemic Awareness





SOUND ISOLATION WHAT IS THE BEGINNING SOUND IN TURTLE?



Sound Deletion & Manipulation Say 'scat', now say scat without the 's'







A <u>word</u> or <u>word part</u> with one <u>vowel sound</u>

*readers who recognize syllable types are better, faster readers and spellers

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6 SYLLABLES INDICATE THE VOWEL SOUND)

- <u>Closed</u>-short vowel, ends in a consonant on, pep, at
- <u>Open</u>-ends in a vowel, vowel is long no, me, l
- <u>Silent-e</u> long vowel-consonant-final-e lake, pole
- <u>Vowel team</u>-two or more letters, one vowel soundmeat, saw, sight
- <u>R-controlled</u>-vowel is masked by the r-car, her, bird
- <u>Consonant-le</u> -able, rumble, settle, poodle

*80% of all syllables are open and closed

Kelly Kuenzie



SHORT VOWEL SOUNDS ARE THE MOST PROBLEMATIC

- a /ă/ as in apple
- e /ĕ/ as in edge
- i /ĭ/ as in itch
- o /ŏ/ as in octopus
- u /ŭ/ as in up



NONSENSE WORDS TO BREAK THE GUESSING HABIT

shid	hesh	shamp
shan	glosh	blash
shab	chup	chint
chid	mich	prich
chan	chilp	cholp
thand	themp	thes
thun	cath	prath
mith	theg	whill

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PRACTICE FOR TUTORS THIS IS NOT AN EXERCISE FOR STUDENTS

list controlled for short a: find the five illegal /ă/ word

man	class	saw
wash	sat	call
had	star	at
sad	was	nap
ram	cab	tax

READING PRACTICE MUST REINFORCE WHAT HAS BEEN SYSTEMATICALLY TAUGHT STUDENT MUST HAVE 90% ACCURACY FOR COMPREHENSION

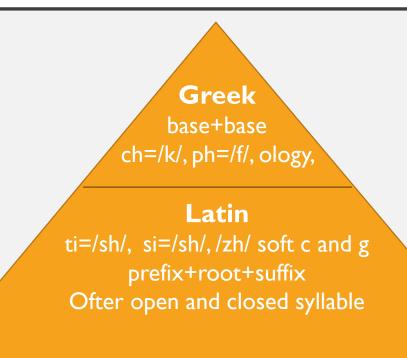
CONTROLLED TEXT

- Reduces guessing
- Only (or mostly) includes patterns directly taught
- Reinforces the fundamental skills of decoding in order to gain comprehension
- Examples-Mac and Tab, Wilson readers for older students, Phonics Books, Fly Leaf Publishing

UNCONTROLLED TEXT

- Use when decoding skills are in place
- Accommodations may be used to access understanding of complex text and develop vocabulary
- Work around- audio books, apps for reading texts like voice dream reader, Libbylibrary app,

LAYERS OF THE ENGLISH LANGUAGE



Anglo-Saxon and Jutes

kn-, wr-, -ough, -igh, -ck, -tch, most vowel teams



ENGLISH IS COMPLEX BUT 85% PREDICTABLE

- One million words in English and 6 syllable types
- English 'acquires' words easily and often.
- English isn't Crazy by Diane Hansbury King





Short term, working memory, and retrieval from long term memory is often challenging for learners with dyslexia.

Multisensory activities reinforce the transfer of linguistic representations from short to long term memory.



Multisensory



The term multisensory refers to any learning

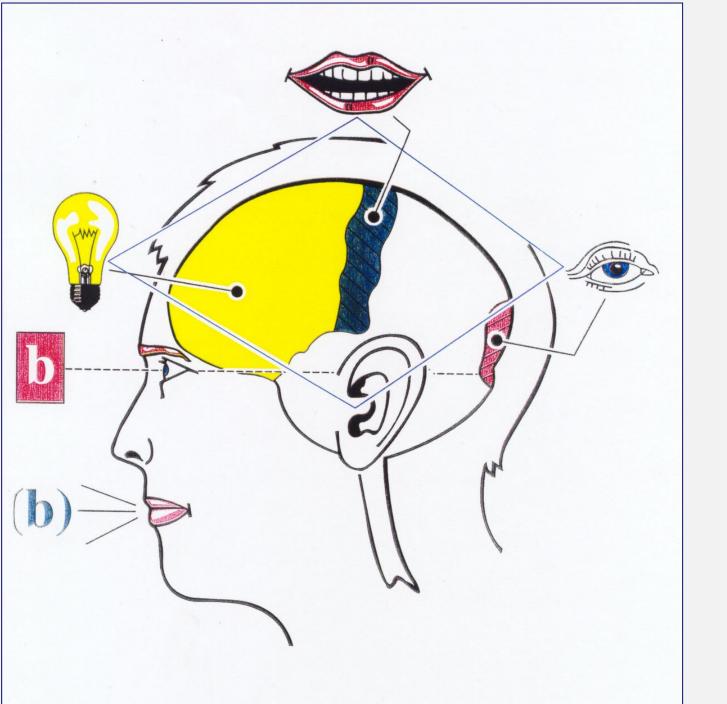
activity that includes the use

of two or more sensory

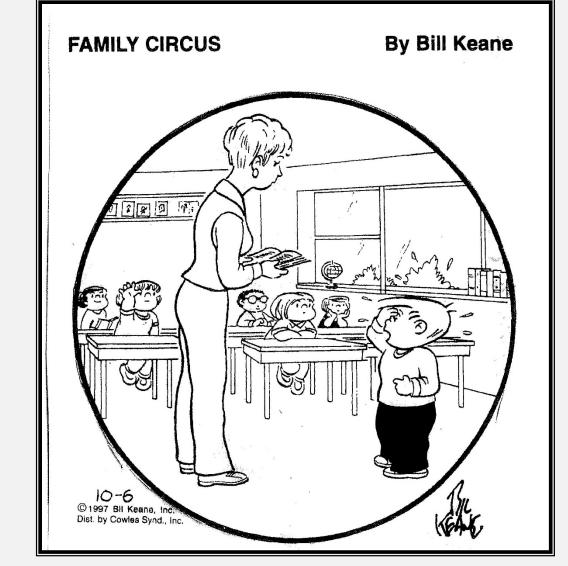
modalities simultaneously to take

in or express information. (Birsh, 1)





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"I know the answer, but I can't quite download it."



Intensive Dyslexia Intervention Programs

Alphabetic Phonics

Dyslexia Training Program; "Take Flight" by Texas Scottish Rite Hospital; MTA; Neuhaus Wilson Reading Method Spalding Slingerland Children's Dyslexia Centers MSL Program **Project READ Orton-Gillingham (AOGPE)**



Academic Language Therapy Association Certifies individuals at Practitioner and Therapist levels altaread.org

International Multisensory Structured Language Education Council Evaluates and Accredits Training Centers imslec.org

ENGLISH LANGUAGE LEARNERS AND DYSLEXIA

People of all races and nations have Dyslexia

• Esperanza- Boxed OG kit for Spanish speaking people with Dyslexia. Kit runs around \$400.00.

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Teaching Level and Instructor of Teaching Level Therapy Level and Instructor od Therapy Level 47 Centers throughout the Northeast childrensdyslexiacenters.org

Academy of Orton-Gillingham

Accredits and Certifies Practitioners and Educators ortonacademy.org

> Wilson Language Training Certifies Level I and 2 wilsonlanguage.com



FOR MORE INFORMATION

The International Dyslexia Association

 40 York Road 4th Floor Baltimore, Maryland 21204



Dyslexiaida.org

http://soundsofspeech.uiowa.edu/english/english .html





"The differences are personal. The diagnosis is clinical. The treatment is educational. The understanding is scientific."

Margaret Byrd Rawson and Roger Saunders

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Decoding Activity: Recognizing Phonemes

Phoneme translation key:

When you see		Pronounce as
q		/d/ or /t/
Z		/m/
р		/b/
b		/p/
ys		/er/
a, as in bat		/e/, as in pet
e, as in pet		/a/, as in bat

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We pegin our grib eq a faziliar blace, a pogy like yours end zine. In condains a hundrad qrillion calls qheq work qogaqhys py qasign. Enq wighin each one of ghese zany calls, each one gheg hes QNA, ghe QNA coge is axecgly ghe saze, a zess-broquceg rasuze. So ghe coqe in each call is igangical, a razarkaple pug velig claiz. Qhis zeans gheg ghe calls are nearly alike, puq noq axecqly qhe saze. Qake, for insqence, ghe calls of ghe ingasgines; gheg ghey're vigal is cysgainly blain. Now ghink apoug ghe way you woulg ghink if ghose calls wyse ghe calls in your prain.

Children's Dyslexía Centers We begin our trip at a familiar place, a body like yours and mine. It contains a hundred trillion cells that work together by design. And within each one of these many cells, each one that has DNA, the DNA code is exactly the same, a mass-produced resume. So the code in each cell is identical, a remarkable but valid claim. This means that the cells are nearly alike, but not exactly the same. Take, for instance, the cells of the intestines; that they're vital is certainly plain. Now think about the way you would think if those cells were the cells in your brain.

(Excerpt from "Journey into DNA" on the "Cracking the Code" Web site, NOVA Online.)

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