

Tammy L. Stephens, Ph.D.

° Disclosures

- °Clinical Assessment Consultant, Riverside Insights
- $\circ \mathrm{Author} \ \mathrm{of} \ \mathrm{C}\text{-}\mathrm{SEP}$
- °University Assistant Professor
- °Educational Diagnostician
- °Special Education Teacher





Dyslexia Defined

A neurologically-based specific learning disability (SLD)that is characterized by *difficulties with accurate and/ or fluent word recognition, poor reading decoding,* and *poor spelling* abilities (Proctor, Mather, & Stephens, 2015)

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Dyslexia Defined-IDA (2002)

The International Dyslexia Association defines "dyslexia" in the following way: Dyslexia is a specific learning diability 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 deficit 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 problem in reading comprehension and reduced reading experience that can impede growth of vocabulary and background knowledge.

Adopted by the International Dyslexia Association Board of Directors, November 12, 2002

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Dyslexia Defined- Texas

Texas Education Code (TEC) \$38.003 defines dyslexia and related disorders in the following way:

 "Dyslexia" means a disorder of constitutional origin manifested by a difficulty in learning to read, write, or spell, despite conventional instruction, adequate intelligence, and sociocultural opportunity.

¹¹ "Related disorders" include disorders similar to or related to dyslexia, such as developmental auditory imperception, dysphasia, specific developmental dyslexia, developmental dysgraphia, and developmental spelling disability. TEC §38.003(d)(1)-(2) (1995)

Manifestations of Dyslexia

° Students identified as having dyslexia typically experience primary difficulties in

- the following areas:
- $\circ\,$ phonological awareness, including phonemic awareness and manipulation,
- ° single-word reading, ° reading fluency, and
- ° spelling.
- ° Consequences may include difficulties in reading comprehension and/or written expression. These difficulties in phonological awareness are *unexpected for the student's age and educational level* and are *not primarily* the result of language difference factors. Additionally, there is often a **family history** of similar difficulties. (Texas Dyslexia Handbook, 2018)

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Primary Characteristics of Dyslexia

The following are the primary reading/spelling characteristics of dyslexia:

- ° Difficulty reading words in isolation
- ° Difficulty accurately decoding unfamiliar words
- ° Difficulty with oral reading (slow, inaccurate, or labored without prosody)
- o Difficulty spelling

It is important to note that individuals demonstrate differences in degree of impairment and may not exhibit all the characteristics listed above.

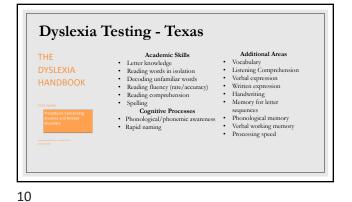
(Texas Dyslexia Handbook, 2018)

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Characteristics and Consequences

- The reading/spelling characteristics are most often associated with the following: • Segmenting, blending, and manipulating sounds in words (phonemic awareness)
- ° Learning the names of letters and their associated sounds
- Holding information about sounds and words in memory (phonological memory)
- Rapidly recalling the names of familiar objects, colors, or letters of the alphabet (rapid naming)

- Consequences of dyslexia may include the following:
 variable difficulty with aspects of reading comprehension
 Variable difficulty with aspects of written language
 Limited vocabulary growth due to reduced reading experiences (Texas Dyslexia Handbook, 2018)



Conducting a Comprehensive Assessment of Dyslexia

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Comprehensive Evaluation of Dyslexia

° Multifaceted

- °Multiple Sources of Data collected as part of the assessment process.
- •Balanced integration of informal & formal data sources are necessary to fully understand the learner and his/her struggles.
- °Targeted/purposeful assessment of reading & writing.

Components of a Dyslexia Assessment

- ° Screener Information
- ° Qualitative Data
- ° Informal Testing
- Formal Testing

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Importance of Dyslexia Screeners

- ° Early identification of students with dyslexia and the implementation of early intervention programs for these students have a significant impact on their future academic success.
- According to Hall and Moats (1999):
- ° Early identification is critical because the earlier the intervention, the easier it is to remediate
- \circ Inexpensive screening measures identify at-risk students in mid-kindergarten with 85%accuracy.
- If intervention is not provided before the age of 8, the probability of reading difficulties continue into high school is 75% (pp. 279-280).

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Research Supporting Dyslexia Screeners

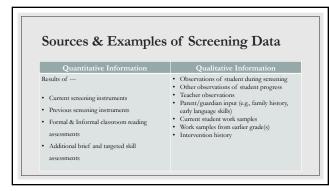
- $^\circ$ The rapid growth of the brain and its responsiveness to instruction in the primary years make the time from birth to 8 a critical period for literacy development (Nevills & Wolfe, 2009).
- · Characteristics associated with reading difficulties are connected to spoken language.
- anguage.
 Difficulties in young children can be assessed through screenings of phonemic awareness and other phonological skills (Sousa, 2005).
 Eden (2015) points out "when appropriate intervention is applied early, it is not only more effective in younger children, but also increases the chances of sparing a child from the negative secondary consequences associated with reading failure, such as decline in self-confidence and depression."

Texas Requirements for Dyslexia Screeners

- 2017: The 85th Texas Legislature passed House Bill (HB0 1886, to require that all kindergarten and first-grade public school students be screened for dyslexia and related disorders; the laws also requires that all students beyond first grade be
- related disorders; the laws also requires that all students beyond first grade be screened or tested as appropriate. ^o Texas Education Code §74.28, *Reading Diagnois*, requires each school district to administer to students in Kindergarten, ¹⁴ grade, and 2nd grade a reading instrument to diagnose student reading development & comprehension. ^o This law also requires school districts to administer a reading instrument at the beginning of ^{7m} grade to student who did not demonstrate reading proficiency on the ⁶ This law also requires the commissioner of education to select appropriate reading instruments for inclusion on the commissioner's list.

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Examples of Formal Dyslexia Screeners

° Dynamic Indicators of Basic Early Literacy Skills (DIBELS)

- EasyCBM measure
 Istation's Indicators of Progress, Early Reading (ISIP-ER)
- Texas Primary Reading Inventory (TPRI)
- ° Woodcock-Johnson Diagnostic Reading Battery

• Tejas LEE

• STAR Reading

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Student Behaviors Observed During Screening

° Lack of automaticity

 $^{\circ}$ Difficulty sounding out words left to right

° Guessing

- ° Self-correcting
- ° Inability to focus on reading

° Avoidance behavior

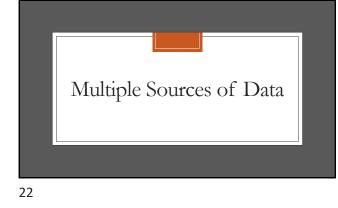
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Progress Monitoring - Dyslexia

° Best practice.

° Evaluate student's response to intervention.

° Diagnostic decision making.



Multiple Sources of Data

The Texas Dyslexia Handbook (2018) requires that the evaluation team gather and consider information about the student's instructional history in the essential areas of reading:

- Phonological awareness
 Phonetic coding,
- Vocabulary
- Language structure
 Reading Fluency
- · Reading Comprehension

° Cumulative data must be collected and considered to provide information about factors that may be contributing to, or primary to the student's struggles in reading and spelling.

Multiple Sources of Data Collection					
Data Source Description					
Family History	Student background information; Parent information about the student; Parent information about parents' learning experience; Student's emotional and social status; Economic status; Language acquisition information				
School History	Grades; Work Samples; Information assessment results; Information about current classroom performance; Attendance; Tardiness				
Response-to-Intervention	Scores obtained on screeners; Benchmarks; Progress monitoring charts; Student's performance in relation to peers; Types of interventions implemented				
Teacher Reports	Information regarding student's performance in the classroom (academically and behaviorally); Accommodations and modifications				



Informal Data - Qualitative Information

• Previous Assessment Results

- ° Was the student referred or receiving services from Speech/Language?
- District dyslexia screener results RTI interventions and progress monitoring results

• Parent Information

- $^{\circ}$ Student's history of hearing difficulty (e.g., ear infections, tubes in ears, etc.). Student's instory of nearing dimensity (e.g., ear intercions, tubes in ears, etc.
 Student's developmental history around listening comprehension and language development
 Information about the student's development of basic reading skills (e.g., phonemic awareness and phonological processing)
 Understand the student's language proficiency
 Is there a history of reading difficulties or attentional problems with the student (e.g., diagnose of ADD/ADHD) or in the family?

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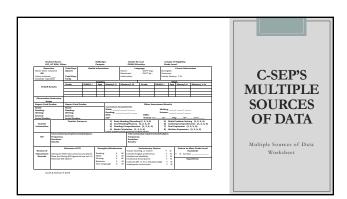
Informal Data - Qualitative Information

• Teacher Information

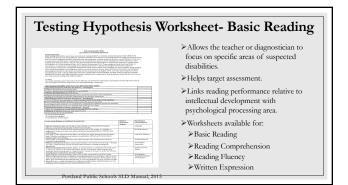
- Student's history of reading, listening comprehension, & language development Teacher reports of classroom difficulty
 Information about the student's reading development
- · Observation in the Classroom
- How does the student perform on tasks associated with reading, writing, and language?
- How does the student perform in relation to same age/grade peers?
- **Observation During Testing** Does the student ask for items to be repeated often?

• Work samples

- Reading, writing, and spelling performance
 Listening comprehension tasks



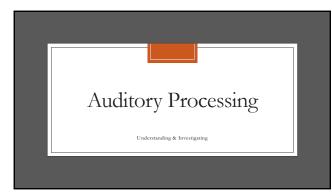




Considerations During Classroom Observation

- ° Is the child engaged during instruction?
- $^{\circ}$ Is the child slow to follow instruction?
- ° Can the child remember what was said?
- \circ Does he/she wait to see what his/her peers do before taking action?
- ° Does he/she require or request repetition or clarification?

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Understanding the Student's Auditory History

- ° Understanding the student's history of hearing and ear health is vital to the
- assessment of Auditory Processing.
- Untreated ear infections are a serious and underestimated cause of multiple learning problems in schools. Middle ear infections result in buildup of fluid which results in difficulties with listening tasks (Willis, 2016).
- ° Untreated, unpredictable hearing loss can:
 - interfere with the acquisition of basic oral language skills, both vocabulary and grammar.
 - contribute to deficiencies in and/or perception and development of phonemic awareness or the ability to recognize the separate sounds that make up a word; these skills are essential for the development of reading and spelling skills (Brody, 1994).
- impair the ability to hear against background noise and the capacity to sustain listening attention.
- interfere with the development of attention span and organizational skills.

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Understanding the Student's Auditory History: Qualitative Data to Consider

- Data to collect and consider when assessing the student's auditory history skills:
- Complete medical history from parent/guardian should include information regarding the student's developmental history around hearing.
 - Did the student have a history of hearing infections during childhood?
 - Did the student have tubes inserted in ears?
 - Were there issues with hearing during early development?
 Has the child had assessment from an audiologist prior to referral?
- Nurse's hearing screening results
- Parent & teacher information regarding listening and attention at home and school.
- · Student information regarding his/her ability to hear what others are saying.
- Classroom and testing observation (e.g., does he/she ask for things to be repeated often?)

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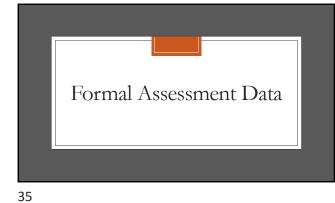
Attentional Issues vs Deficits in Auditory Processing

- ° An important part of the evaluation process is to tease out and differentiate whether the student is truly struggling with an auditory processing deficiency or an attentional difficulty - this can be a very tricky but important component.
- ° "Chicken or the egg" scenario
- Comorbidity
- ° Diagnosed with ADHD/ADD?
- ° Family history of ADHD/ADD?
- ° Developmental history of ear infections?

Informal Listening Tasks

- According to Brown (2004), we can assess listening comprehension in a communicative context if we think beyond formal assessment and consider the different types of listening tasks that are required in the classroom.
- Note-taking tests that can be scored for content, visual representation (neatness and organization), accuracy, and efficiency (e.g., use of symbols to save time);
- Organization, accuracy, and entering (e.g., use or symmos to save mire);
 Chining tasks that require the examinee to discern discrepancies between what they hear and printed tex;
 Retelling, passages heard orally and asking specific questions around main ideas, supporting details, key phrases, etc.
- Interpreter tasks, in which listeners attend to a unit of discourse and respond to questions, thereby forcing listeners to provide evidence of their inferential thinking skills.
 Error analysis should be conducted when using these methods to tease out the breakdown in Listening comprehension.

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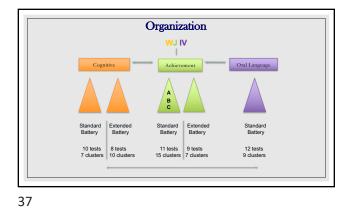


Formal Assessment Data for a Comprehensive Dyslexia Evaluation

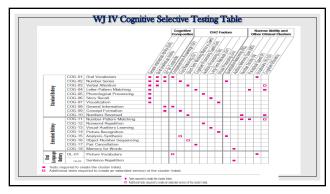
- °WJ IV Cognitive (Optional)
- °WJ IV Achievement or WMLS III
- °WJ IV Oral Language or WMLS III

°C-TOPP

°TAPS-4 English/TAPS-3 Bilingual







WJ IV Achievement Tests that Assess the Primary Characteristics of Dyslexia				
WJ IV Tests What the Test Measures				
ACH Test 1: Letter-Word Identification	Recognition and naming of letters and words			
ACH Test 3: Spelling	Production (spelling) of words			
ACH Test 7: Word Attack	Application of phonics to word reading			
ACH Test 8: Oral Reading	Reading sentences aloud accurately and easily			
ACH Test 9: Sentence Reading Fluency	Reading and comprehending sentences silently			
ACH Test 15: Word Reading Fluency	Reading and comprehending words silently			
ACH Test 16: Spelling of Sounds	Application of phonics to spelling			



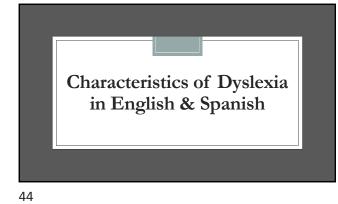
WJ IV Achievement Tests that Assess the Secondary Characteristics of Dyslexia				
WJ IV Tests	What the Test Measures			
ACH Test 4: Passage Comprehension	Understanding of passages read silently			
ACH Test 6: Writing Samples	Ability to convey meaning in writing			
ACH Test 11: Sentence Writing Fluency	Ability to construct short sentences quickly			
ACH Test 12: Reading Recall	Understanding of short stories read silently			
ACH Test 17: Reading Vocabulary	Understanding of words read silently			

WJ IV Cognitive Tests	What the Test Measures
COG Test 3: Verbal Attention	Temporare store of verbal information and cue-dependent search functions in primary memory
COG Test 4: Letter-Pattern Matching	Orthographic visual perceptual discrimination ability under timed conditions
COG Test 5: Phonological Processing	Word activation, fluency of word access, and word restructuring via phological codes
COG Test 10: Numbers Reversed	Temporary storage and recoding of numeric information in primary memory
COG Test 11: Number-Pattern Matching	Numeric visual perceptual discrimination ability under timed conditions
COG Test 12: Nonword Repetition	Phonological short-term working memory, sensitivity, and capacity
COG Test 16: Object-Number Sequencing	Assembly of new cognitive structures out of information maintained in working memory
COG Test 17: Pair Cancellation	Symbolic visual perceptual discrimination ability requiring cognitive control under timed conditions
COG Test 18: Memory of Words	Storage capacity for unrelated words in primary memory

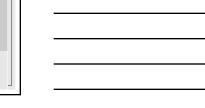
WJ IV Oral Language Tests	What the Test Measures
OL Test 3: Segmentation	Ability to break apart word, progressing from compound words, to syllables, to individual phonemes
OL Test 4: Rapid Picture Naming	Fluency of recognition, retrieval, and oral production of names of common pictured objects
OL Test 5: Sentence Repetition	Auditory memory span for connected discourse
OL Test 7: Sound Blending	Ability to blend sounds into words
OL Test 8: Retrieval Fluency	Fluency of word access
OL Test 9: Sound Awareness	Ability to analyze and manipulate phonemes through rhymign and deletion tasks



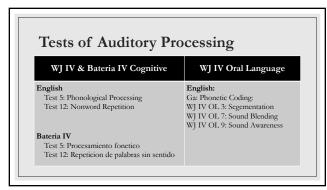
WJ IV Constructs to Assess Student's Ability to Learn Independent of Reading					
WJ IV Constructs Description					
General Intellectual Ability (GIA)	General Intelligence				
Gf-Gc Composite - Oral Language - Oral Expression	Reasoning & Knowledge Understanding Oral and Receptive language Expressive single-word vocabulary and ability to listen to and then repeat simple to complex sentences				
- Listening comprehension	Use of syntactic and semantic cues when listening, and ability to follow simple to complex oral directions				
- Vocabulary	Expressive single-word vocabulary and knowledge of word meanings, synonyms, and antonyms				
Math - Calculation - Problem Solving	Computation skills and problem solving Ability to compute math problems Problem solving and logical reasoning with numbes				
Knowledge - Academic Knowledge - General information	General Understanding Knowledge of science, social studies, and humanities Knowledge of one's environment and the world				

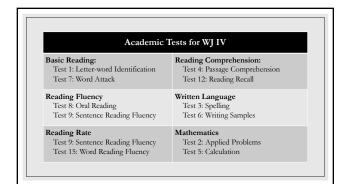


Characteristics of Dyslexia in English and Spanish				
English Spanish				
Phonological awareness Rapid naming Regular/irregular decoding Fluency Spelling	Phonological awareness (may be less pronounced) Rapid naming Regular/irregular decoding (fewer irregular words in Spanish) Fluency (often a key indicator) Spelling (may show fewer errors than in English but still more than those who do not have dyslexia)			
Reading comprehension may be a weakness in both English and Spanish				



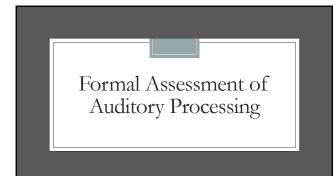
	WJ IV Tests of Oral Language (English and Spanish)	WMLS-III (English and Spanish)		
Tests of	ENGLISH	ENGLISH		
Oral	Listening Comprehension Test 2: Oral Comprehension Test 6: Understanding Directions	Listening Comprehension Test 1: Analogies Test 2: Oral Comprehension		
Language	Oral Expression	Oral Expression		
and	Test 1: Picture Vocabulary Test 2: Oral Comprehension	Test 3: Picture Vocabulary Test 4: Oral Language Expression		
Listening	SPANISH	SPANISH		
Comp.	Listening Comprehension Test 10: Vocabulario sobre dibujos Test 11: Comprension oral	Listening Comprehension Test 1: Analogias Test 2: Compesion oral		
	Oral Expression	Oral Expression		
	Test 11: Comprension oral Test 12: Comprension de indicaciones	Test 3: Vocabulario sobre dibujos Test 4: Expression de lenguaje oral		





Academic Tests for Bateria IV				
Destrezas basicas en lectura:	Comprension de lectura			
Test 1: Identificacion de letras y palabras	Test 4: Comprension de textos			
Test 7: Analisis de palabras	Test 12: Rememoracion de lectura			
Fluidez en la lectura	Lenguaje escrito			
Test 8: Lectura oral	Test 3: Ortografia			
Test 9: Fluidez en lectura de frases	Test 6: Expresion de lenguaje escrito			
	Mathematicas Test 2: Problemas aplicados Test 5: Caluclo			

Academic Test	ts for WMLS III
English	Spanish
Test 5: Letter-word Identification	Test 5: Letter-word Identification
Test 6: Passage Comprehension	Test 6: Passage Comprehension
Test 7: Dictation	Test 7: Dictation
Fest 8: Written Language Expression	Test 8: Written Language Expression

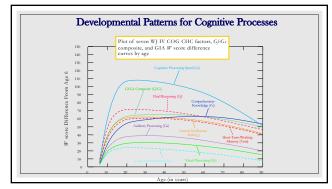


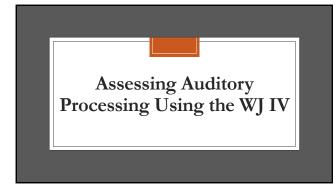
What is Auditory Processing?



- $^\circ$ What do we do when we hear?
- Ability to analyze, synthesize, and discriminate auditory stimuli
 Involves the receipt of an auditory signal and the performing of some cognitive
- operation related to the signal ° The ability to detect and process meaningful nonverbal information in sound.
- Does not require the comprehension of language but it does contribute to the
- language and reading comprehension
- ° Involves speech, sounds or music

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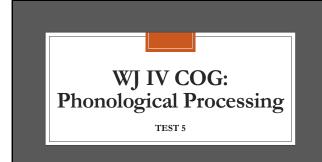
Assessing Auditory Processing Using the Woodcock Johnson IV

• Woodcock-Johnson IV Cognitive • Test 5: Phonological Processing • Test 12: Nonword Repetition

Woodcock-Johnson IV Oral Language Phonetic Coding Test 3: Segmentation

• Test 7: Sound Blending

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Woodcock Johnson IV Cognitive: Test 5: Phonological Processing

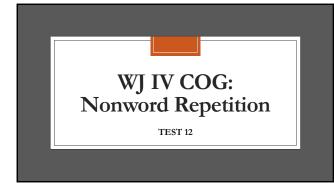
• **WJ IV COG Test 5: Phonological Processing:** a cognitively complex auditory processing (G *a*) task that includes speed or lexical access, a narrow ability of long-term retrieval (G *li*).

° Comprised of 3 Subtests (all 3 must be given to obtain a score):

- Word Access • Word Fluency
- Word Fluency
 Substitution

 $^{\circ}$ A median reliability of .88 in the 5-19 year old range and a .90 in the adult age range.

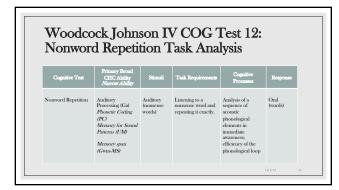
Woodcock Johnson IV COG Test 12:						
Phonological Processing Task Analysis						
				-		
Cognitive Test	Primary Broad CHC Ability Narrow Ability	Stimuli	Task. Requirements	Cognitive Processes	Response	
Phonological Processing • Word Access • Word Fluency • Substitution	Auditory Processing (Ga) Phonetic Coding (PC) Word Fluency (Gh-FW) Speed of Lexical Access (Gh-LA)	Auditory (words)	Providing a word with a specific phonic element; naming as many words as possible that begin with a specific sound; substituting part of a word to make a new	Semantic, activation, access, speed of lexical access	Oral (words)	

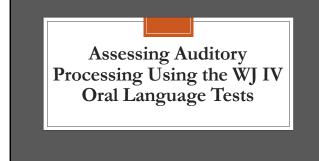


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Woodcock Johnson IV Cognitive: Test 12: Nonword Repetition

- Woodcock-Johnson IV Cognitive Test 12: Nonword Repetition is a cognitively complex measure of phonological processing, measuring aspects of auditory processing (Ga) and short-term working memory (Gwm)
- $^\circ$ Includes similar tasks that are sometimes described as measuring phonological short-term memory or phonological loop.
- Task: examinee listens to a nonsense word and then repeat the word exactly
 Item difficulty increases as the number of syllables in the nonsense word increases
- Ga-UM (Memory for Sound Patterns) $\circ\,$ Used with Test 5: Phonological Processing for form Ga
- Median reliability for ages 5-19 is .90 and .90 for adult age range



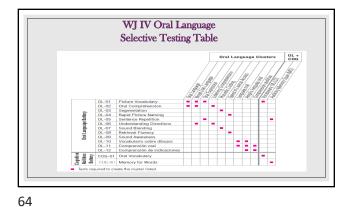


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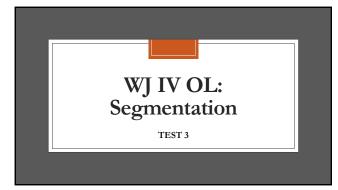
Assessing Auditory Processing Using the Woodcock Johnson IV Oral Language

· Woodcock-Johnson IV Oral Language

- Phonetic Coding
- Test 3: Segmentation Test 7: Sound Blending







Woodcock Johnson IV Oral Language Test 3: Segmentation

- The Woodcock Johnson IV OL Test 3: Segmentation is a measure of auditory processing (Ga). It is a phonetic coding task that measures skill in breaking apart the speech sounds in words.
- The examinee listens to words and must identify the word parts ranging from compound words to syllables to individual speech sounds (phonemes).

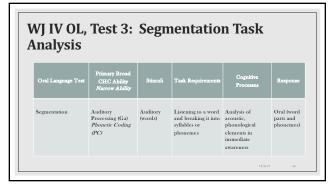
 $\circ~$ This test has a median reliability of .93 in the 5 to 19 age range and .94 in the adult range.

WJ IV Oral Language, Test 3: Segmentation

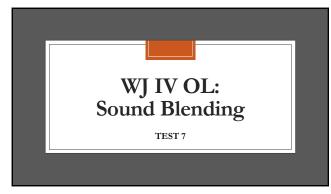
Progresses from:

- Compound words
- Syllables
- Phonemes

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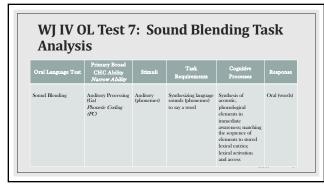


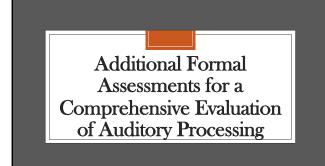
WJ IV Oral Language, Test 7: Sound Blending

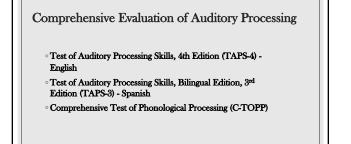
- ° WJ IV Oral Language Test 7, Sound Blending of the is an **auditory processing**
- $^\circ$ It is a phonetic coding task that measures skill in synthesizing speech sounds (phonemes)
- The examine listens to a series of syllables or phonemes and then is asked to blend the sounds into a word

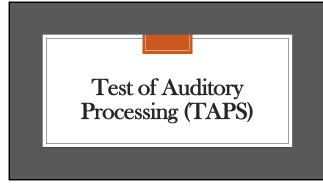
Sound Blending has a median reliability of .88 in the 5 to 19 age range and .94 in the adult age range.

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Test of Auditory Processing Skills (TAPS)

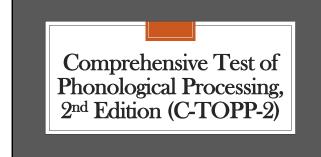
° Ages 5-21 years; individually administered

 The TAPS-4 provides information about language processing and comprehension skills across three intersecting areas: phonological processing, auditory memory, and listening comprehension

• TAPS-4 Indices:

- Phonological Processing Index
- ° Auditory Memory Index
- ° Listening Comprehension Index

TAPS Indices & Subtests		
Phonological Processing Index	Auditory Memory Index	Listening Comprehension Index
Word-Pair Discrimination Phonological Deletion Phonological Blending Syllabic Blending	Number Memory Forward Word Memory Sentence Memory Number Memory Reversed	Processing Oral Directions Auditory Comprehension Auditory Figure-Ground
TAPS Narrow Abilities		
Short-Term Memory Memory Span (MS) Working Memory Capacity (MW)	Auditory Processing Phonetic Coding (PC) Resistance to Auditory Stimulus Distortion (UR)	Comprehension Knowledge Listening Comprehension



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Comprehensive Test of Phonological Processing, 2nd Edition (C-TOPP-2)

° Ages 4 to 24-11; English only

 \circ The Comprehensive Test of Phonological Processing (CTOPP) was published in 1999 to meet the need for an assessment of reading-related phonological processing skills

• C-TOPP-2 Composites:

- ° Phonological Awareness (4-6 years & 7-24 years)
- Phonological Memory (4-6 years & 7-24 years)
- Rapid Symbolic Naming (4-6 years & 7-24 years)
 Alternate Phonological Awareness (7-24 years)

C-TOPP-2 Composites &	Subtants				
	Subicate	(Ages 4-6)			
Phonological Aware:	ness	Phonolog	ical Memory	R	apid Symbolic Naming
Elision Blending Words Sound Matching		Memory for Digits Nonword Repetition		Rapid Digit Naming Rapid Letter Naming	
CTOPP-2 Composites &	Subtests (Ages 7-24)			
Short-Term Memory	Phone	logical Memory	Rapid Symbolic P	Vaming	Alternate Phonological Awareness
Elision		for Digits	Rapid Digit Nami		Blending Nonwords
Blending Words	Nonwor	d Repetition	Rapid Letter Nam	ing	Segmenting Nonwords

Considerations when Analyzing & Interpreting a Student's Performance on Auditory Processing Tests

- ° What is the grade/age of the student and is the skill developmentally appropriate?
- What technique was used to teach basic reading skills?
- What type of reading instruction/curriculum was used?
 Whole Language
- Phonics-Based
- $^\circ\,$ What types of interventions has the student received in RTI?
- ° What is the student's primary language of instruction? How long?
- $^{\circ}$ What are the reading standards for the grade level of the student for the state(s) they have lived in?
- $^\circ$ What do the parents report on the student's language development during the earlier years?

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Interpreting Assessment Results

- $^\circ$ It is vital that the evaluator consider all the data collected on the student when interpreting the results on the assessment
- \circ Evaluators should merge informal and formal data for analysis
- ° Cross validate data to determine consistency in findings
- $^\circ$ Tease out causes of struggles on Listening Comprehension; ruling out other causes (e.g., attention)
- \circ Examine the impact of results on reading and language development (oral and receptive)
- $^{\rm o}$ Link results to interventions and instructional programming

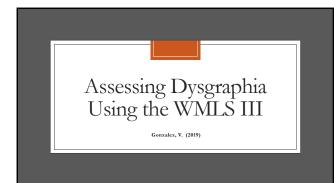
Oral Language	WMLS III English Test 1: Analogies Test 2: Oral Comprehension Test 3: Picture Vocabulary Test 4: Oral Language Expression	and	WMLS III Spanish Test 1: Analogies Test 2: Oral Comprehension Test 3: Picture Vocabulary Test 4: Oral Language Expression
Phonological Processing	WJ IV Auditory Process. COG Tests 5, 12 Phonetic Coding COG Tests 3, 7, 9 TAPS-3 Phonologic Subtests 1, 2, 3 CTOPP	or/ and	Bateria IV Auditory Processing COG Tests 5, 12 TAPS-3: SBE Phonologic Subtests 1, 2, 3
Academic Testing	WMLS III English Test 5: Letter-Word Identification Test 5: Dessage Comprehension Test 7: Dictation Test 8: Written Lang, Expression WJ IV Basic Reading ACH 1, 7 Reading Fluency ACH 8, 9 Reading Gomprehension ACH 4, 12 Spelling ACH 3, 16 Written Expression ACH 6, 11 EasyCEM Sent. Read. Fluency Gr K-2	and/ or	WMLS III Spanish Test 5: Lottor-Word Identification Test 5: Distor-Word Identification Test 7: Dictation Test 7: Dictation Test 8: Written Language Expression Basic Reading ACH 1, 7 Reading Tuency: ACH 8, 9 Reading Comprehension ACH 4, 12 Spelling: ACH 3 Written Expression ACH 6, 11 EasyCEM Sent. Read. Fluency Gr 1-2

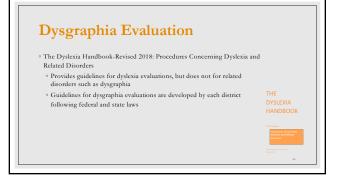
Bilingual Dyslexia Testing

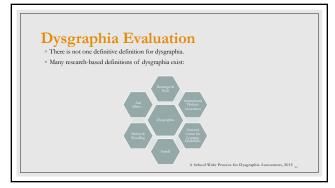
"Assessment of dyslexia for bilingual students requires knowing the student's ability in his/her two or more languages.

 By comparing the student's abilities, side-by-side, in his/her two or more languages, the examiner gets insight into whether a profile is indicative of developmental dyslexia or from issues associated with second language acquisition."



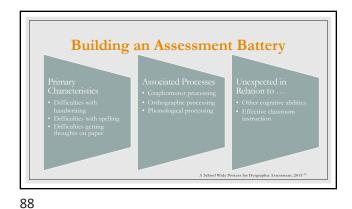




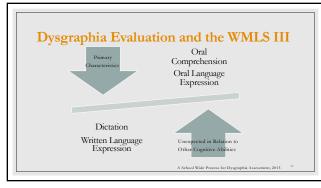




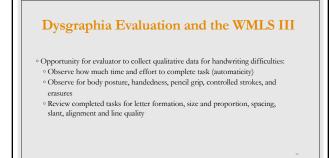


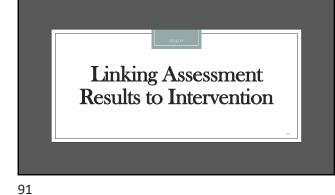












WIIIP WJ IV WIIIP: Comprehensive and Dyslexia Reports

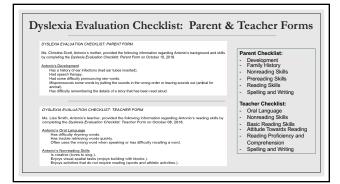
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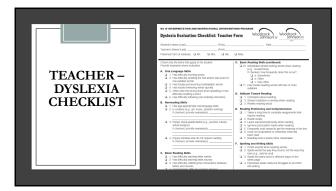
WJ IV Interpretation and Instructional Interventions Program (WIIIP)

- $^{\circ}~$ Report writing program delivered through the WJ IV web-based scoring platform
- ° Facilitates report writing so professional can focus on interpretation and program planningLinks WJ IV results to interventions
- ° Makes testing more instructionally relevant by responding to professionals' needs
- Two Reports:
- Comprehensive Report
 Dyslexia Report
- www.wjwiiip.com

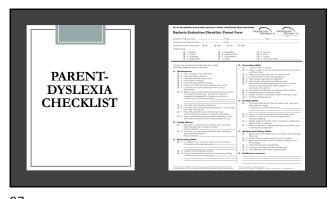


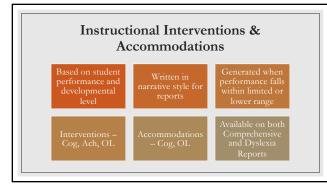
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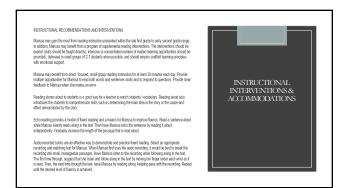












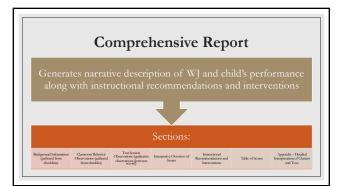
Use ideas of the aphabet to bon concourt-one-bosonicar (IOC) unds that contain the -of-time. Note letter fails to exact the thort of Illinaias. Therefore the letter to (i.e., g, a, b, and or the table). Denotative how there were contained there are used and the transpire to calcular planes the top the random gamma and the random gamma and there are used as a simple top the random gamma and the random gam

Review how how a plural by adding to the end of a word. White her blowing words on the board sar, cat day, by prot, prot, and yog by that and one. A field instantion that adding the strate st

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Item-Level Analysis

Suggests formative interventions
 Interventions are intended to identify a
specific skill deficit and provide an
intervention for teaching the underlying skill
or concept
 Test 1: Latter-Word Identification
 Test 2: Applied Pohlems
 Test 3: Spelling
 Test 5: Calculation
 Test 7: Word Attack



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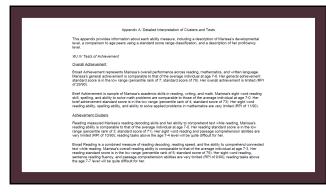
INTERPRETIVE OVERVIEW OF SCORES

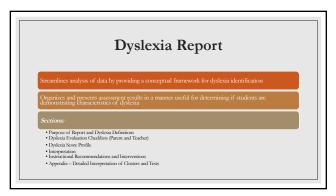
The scores derived from this administration can be interpreted at different levels. Interpretation of Marisaa's performance can be based upon single tests and/or upon logical-empirical combinations of tests called clusters. Variations within groups of scores are evaluated to determine if any relative strengths and waknesses exist. Marisas overall academic achievement, as measured by the WJ IV Broad Achievement standard score, is in the low range of others her age.

Arong the WJ IV achievement measures, Marissa's standard scores are within the average range for one cluster (Written Expression) and three tests (Writing Samples, Oral Reading, and Sentence Writing Fluency). Her scores are within the low average range for five clusters (Reading Fluency, Written Language, Broad Written Language, and Arademic Fluency) and four tests (Passage Comprehension, Word Attack, Sentence Reading Fluency, and Marh facts Fluency), within the low range for even clusters (Reading, Bioark Reading Stells, Mathematics, Broad Mathematics, Math Calculation Skills, and Arademic Skills, and three tests (Applied Problems, Spelling, and Calculation), and with the very low range for one test. (Uterk-Word Gendundan), Basic Calculation, Science and Calculation), and with the very low range for one test (Letter-Word Gendundan) and thin the very low range for the start (Letter-Word Gendundan).

An analysis of variations among Marissa's achievement scores in broad curricular areas suggests that Sentence Writing Fluency and Writing Expression are relative strengths for her. She demonstrated a relative weakness in Letter-Word Identification.

In a cross-domain analysis of variations among Marissa's achievement cluster scores, Marissa demonstrated a relative weakness in Academic Skills.





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Purpose of Report and Dyslexia Definitions

PURPOSE OF REPORT

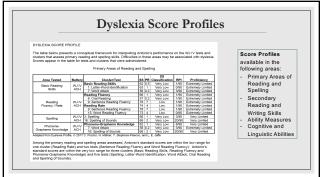
This report organizes and presents Antonio's assessment results and other relevant information in a manner that may be useful for determining whether he exhibits a profile that is consistent with the characteristics of dyslexia. DVSLEXIA DEFINITIONS

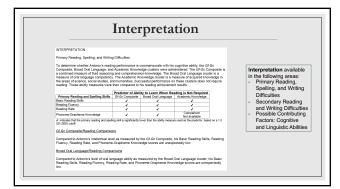
International Dyslexia Association definition (IDA, 2002)

The most commonly used definition of dyslexia in the United States is the IDA definition which states. Dyslexia is a specific learning disability that is neurological in origin. It is characterized by difficulties with accurate and/or funet word recognition and by poor specifieng and decoding abulits. Three difficulties bylically result that a deficit in the phonological component of language that is other unexpected in reliation to other cognitive abilities and the comprehension and relocated reliating experiment that and the comprehension and relocated reliating experiment that can make the growth dyslexial experiment knowledge. "(Addpted by the International Dyslexia Association Board of Directors, November 12, 2002)

Functional definition of dyslexia

Dyslexia affects reading at the single voor level, reading fluency and rate, and spelling. In turn, these weaknesses cause difficulties with reading comprehension and written expression. According to research, the major cognitive contrelates of dystexia include weaknesses in one or more of the following abilities that do not require reading, with a general intelligence, reasoning on all grauge, mathematics, and throwledge, are often unimprint. In other words, the reading and spelling difficulties are often unexpected in relation to the person's other abilities.







Instru	ctional Recommendations and Intervention
	INSTRUCTIONAL RECOMMENDATIONS AND INTERVENTIONS
	Autorio may gain the most from reading instruction presented within the middle to late kindergarten range. In addition, Autorio may benefit from a program of supprenential reading interventions. The Interventions should be explicit (kills is should be abargit directly), intervenice (a nonzentational comber of reliefs desimany gopportunities should be provided), delivered in small groups of 2-7 sludents when possible, and should employ scattloid learning principies with emotional support.
	Phoneme matching activities may help Antonio identify initial phonemes in a word. For example, provide picture cards that begin with one of three different consonant acounds. Provide a wortshinel divided into three columns with one consonant withen at the top deated without mak Arkhonio say the name of the picture for reach card and place it in the appropriate column. Silvehandly, more consonants can be infloadued, and Antonic can soft the picture cards in ging with the same beginning sound without using a worksheet.
	Antonio may benefit from an assisted-reading intervention. In assisted reading, Antonio reads aloud while an accomplished reader follows along silently. If Antonio makes an error, the helping reader corrects his error. Antonio should then repeat the word and continue reading.
	Use the following sequence to basch Antonio segmentation. Begin with tasks that require Antonio to break apart compound words (e.g., ariancia). Then progress to syllables. Have Antonio table that the progress of the syllable and the markers to represent each words pat. What Antonio has learned to break words into syllables, teach in how to segment about words into onests and mines (the first part of a syllable and the ending part of a syllable) and then into individual proteines.
	Based on noted limitations in Antonio's cognitive performance:
	Accommodations that may hitlp compensate for Antonio's limitations in perceptual speed might include providing estimated time, reducing the quarkit ovice required forwaling lunge assignments into two or more component assignments), eliminating or inming copying activities, and increasing wait times after questions are asked as well as after response are given.

Detailed Interpretation of Clusters and Tests

Appendix A: Detailed Interpretation of Clusters and Tests This appendix provides information about each ability measure, including a description of Antonio's developmential level, a comparison to age peers using a standard score range classification, and a description of his proficiency level.

WJ IV Tests of Cognitive Abilities

Intellectual Ability

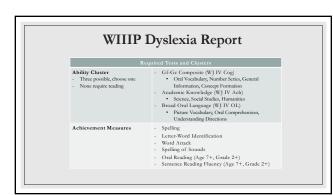
The GFG-C Compatibility is combined measure of Antonic's laxical (word) knowledge; general cultural knowledge; and quantitative, deductive, and inductive reasoning. Antonic's fluid and crystallede intellectual ability compatible is been compatible to the compatibility of the compat

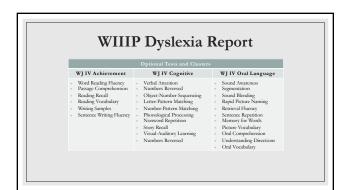
Cognitive Clusters

Short-Term Working Memory (Gwm) measured Antonic's ability to attend to, hold, and manpulate information in working memory. Although Antonic's short-term working memory standard score is within the low average range the performance varied on two different pees of tasks requiring working memory. Attonic's performance is average on working memory capacity tasks. His performance is very limited on verbal working memory tasks.

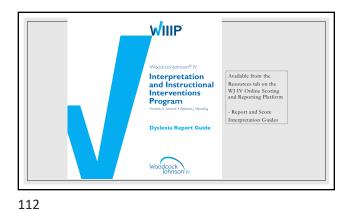
Short-Term Working Memory-Extended is a broad measure of the ability to attend to, hold, and manipulate information in working memory. Although Antonice stort-term working memory standard score is within the average ange), the performance varies of two different types of takes requiring working memory. Antonice performance is average on working memory capacity tasks. His performance is very limited on verbal workin memory tasks.

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Contact Information

- ° Tammy L. Stephens, Ph.D.
- ° Tammy.Stephens@RiversideInsights.com