

Charlie, 3rd Grade

- Strengths in:
- MathematicsOral vocabulary
- –Academic knowledge



- Weaknesses in:
- -Word identification
- -Word perception
- speed
- -Spelling

International Dyslexia Association (2003) defines dyslexia as:

[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 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 problems in reading comprehension and reduced reading experience that can impede growth of vocabulary and background knowledge.

British Dyslexia Association

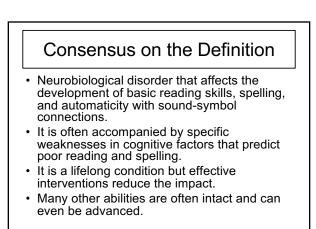
The word 'dyslexia' comes from the Greek and means 'difficulty with words'. Definition: Dyslexia is a specific learning difficulty which mainly affects the development of literacy and language related skills. It is likely to be present at birth and to be lifelong in its effects. It is characterised by difficulties with phonological processing, rapid naming, working memory, processing speed, and the automatic development of skills that may not match up to an individual' s other cognitive abilities. The phonological deficit view that has dominated the field for years is inadequate for explaining all cases of reading disorder (Peterson & Pennington, 2012; Snowling & Hulme, 2012 and its importance has been overstated (Swanson, Trainin, Necoechea, & Hammill, 2003).

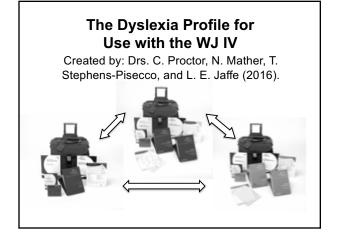
Peterson, R. L., & Pennington, B. F. (2012). Developmental dyslexia. *The Lancet, 379*(9830), 1997–2007. Snowling, M. J., & Hulme, C. (2012). Annual research review: The nature and classification of reading disorders—a commentary for proposals on DSM-5. *Journal of Child Psychology and Psychiatry, 53*, 593–607. Swanson, H. L., Trainin, G., Necoechea, D. M., & Hammill, D. D. (2003). Rapid naming, phonological awareness, and reading. A meta analysis of the correlational evidence. *Review of Educational Research, 73*, 407–444.

| | RD | LI | SSD | ADHD | ID | ASD |
|---------------------------------|-----|-----|-----|------|-----|-----|
| Crystallized intelligence | + | - | + | + | - | - |
| Fluid intelligence | + | +/ | + | + | - | - |
| Processing Speed | - | - | + | - | - | - |
| Reading | | | | | | |
| Word recognition | - | - | + | + | +/- | +/- |
| Phonological coding | - | - | + | + | +/ | +/- |
| Fluency | - | - | + | + | +/ | +/- |
| Comprehension | +/- | - | + | +/- | - | - |
| Oral language | | | | | | |
| Semantics | + | - | + | + | - | - |
| Syntax | + | - | + | + | - | - |
| Phonological awareness | - | - | - | + | +/ | +/- |
| Verbal working memory | - | - | - | +/- | - | + |
| Executive functions | | | | | | |
| Inhibition | + | +/- | + | - | - | + |
| Generating | + | +/- | + | - | - | - |
| Set shifting | + | +/- | + | +/- | - | - |
| Sustained attention | + | +/- | + | - | - | - |
| Visual-spatial skills | + | + | + | + | - | + |
| Social and communication skills | + | +/- | + | +/ | - | - |

Note. +, intact; -, impaired.

Pennington , B. F. (2009). *Diagnosing learning disorders: A neuropsychological framework* (2nd ed.). New York, NY: Guilford Press.





Benefits of the Profile

- Provides a way to organize data regarding consideration of whether or not a person has dyslexia.
- May be used with WJ IV COG, WJ IV ACH and WJ OL, or all three batteries.
- Saves time for the examiner.
- Helps focus the evaluation to the main results that are most relevant to a diagnosis of dyslexia.

- Highlights the cognitive, linguistic, and achievement abilities that are most relevant to dyslexia.
- Provides a format for exploring both discrepancies and comparisons.
- Highlights an individual's strengths and weaknesses.

Identifying the Primary Reading and Spelling Difficulties

Development and Acquisition of:

- Sound-letter (phoneme-grapheme) associations
- Basic reading skills

 Phonics and sight word reading
- Rate (automaticity) of reading and spelling
- Spelling

Identifying the Primary Reading and Spelling Difficulties

WJ IV ACH Reading/Spelling Clusters and Tests

- Phoneme-Grapheme Knowledge
 - Word Attack, Spelling of Sounds
- Measures phonic skills
- Basic Reading Skills
- Letter-Word İdentification, Word Attack
 Reading Rate
- Sentence Reading Fluency, Word Reading Fluency
 Silent reading rate

dcock

Johnson' IV

- Two spelling tests
 - Spelling, Spelling of Sounds



WJ IV ACH Test 8: Oral Reading

- Woodcock Johnson IV
- Contributes to the Reading Fluency cluster.
- Individual reads increasingly difficult sentences aloud.
- Similar to an informal reading inventory.
- Good first test to administer in a reading evaluation.

| Name: W., Westin Date of Birth: 03/06/2007 Age: 9 years, 11 months Sex: Male Date of Testing: 02/11/201 | 7 | | Tea Gra ID: | ool: cher: de: 3.5 miners: | |
|---|-------------------|---------|------------------------|--|----------------------------|
| TESTS ADMINISTERED Woodcock-Johnson /V Test | s of A | Ichieve | ment Form A and | Extended (Norm | s based on age 9-11) |
| TABLE OF SCORES Woodcock-Johnson IV Test CLUSTERTest BASIC READING SKILLS READING FLUENCY | <u>GE</u> 2.3 | RPI | Proficiency Limited | SS (68% Band) 82 (80-85) | PR (68% Band) 12 (9-16) |
| Letter-Word Identification Spelling Word Attack Onal Reading Sentence Reading Fluency | 2.3 2.5 1.9 | 45/90 | Limited Limited | 80 (76-83) 88 (83-92) 82 (79-85) | 9 (6-13) 21 (13-30) |
| | | | | | |

| Date of Birth: 09/29/2003 Age: 13 years, 4 months Sex: Female Date of Testing: 02/13/201 TESTS ADMINISTERED | 7 | | + ID: | her: e: 7.5 | | | | | | |
|---|-------|--------|-----------------------------------|------------------------|--------------------|--|--|--|--|--|
| Age: 13 years, 4 months Sex: Female Date of Testing: 02/13/201 | 7 | | Grad + ID: | | | | | | | |
| Sex: Female Date of Testing: 02/13/201 | 7 | | + ID: | | | | | | | |
| Date of Testing: 02/13/201 | 7 | | | | 4 ID: | | | | | |
| | | | Examiners: | | | | | | | |
| TESTS ADMINISTERED | | | | | | | | | | |
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| Woodcock-Johnson IV Tests | A AI | hinner | nent Form & and F | Sylandad Biorme | heed on ene 13.4) | | | | | |
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| TABLE OF SCORES | | | | | | | | | | |
| | of Ar | hinver | nent Form A and F | Extended (Norms | based on age 13-4) | | | | | |
| | | RPI | Proficiency | SS (68% Band) | | | | | | |
| BASIC READING SKILLS | 1.8 | 3/90 | Extremely Limited | 55 (52-59) | <1 (<1-<1) | | | | | |
| Letter-Word Identification | 1.9 | 1/90 | Extremely Limited | 54 (51-58) | <1 (<1-<1) | | | | | |
| Word Attack | 1.4 | 11/90 | Very Limited | | <1 (<1-1) | | | | | |
| READING FLUENCY | 2.2 | 1/90 | Extremely Limited | 60 (55-65) | <1 (<1-<1) | | | | | |
| Oral Reading | | 19/90 | Very Limited | 70 (67-74) | 2(1-4) | | | | | |
| Oral Heading | | 0/90 | Extremely Limited | 61 (55-67) | <1 (<1-1) | | | | | |
| Sentence Reading Fluency | 2.2 | | | | | | | | | |
| | | 12/90 | Very Limited | 64 (61-67) | <1 (<1-2) | | | | | |
| Sentence Reading Fluency | 2.5 | 12/90 | Very Limited Extremely Limited | | | | | | | |
| TABLE OF SCORES Woodcock-Johnson /V Tests CLUSTER/Test BASIC READING SKILLS | GE | RPI | Proficiency | SS (68% Band) | PR (68% Band) | | | | | |

Identifying the Secondary Reading and Writing Difficulties

- Reading Comprehension
- Written Expression
- Vocabulary and Knowledge

Reading Comprehension

"Individuals with problems in reading comprehension that are not attributable to poor word recognition have comprehension problems that are general to language comprehension rather than specific to reading" (p. 3).

Source: Spencer, M., Quinn, J. M., Wagner, R. K. (2014). Specific reading comprehension disability: Major problem, myth, or misnomer? *Learning Disabilities Research & Practice*, 29, 3-9.

Cognitive Correlates

- Are related cognitive and linguistic factors that affect the development of reading and spelling skill.
- They predict difficulties with reading and spelling development.
- Some are more trainable than others (e.g., phonological awareness vs. working memory).

Cognitive and Linguistic Correlates of Dyslexia

- Attention
- Phonological Processing
- Orthographic Processing
- •Memory
- Rapid Automatized Naming (RAN)
- Processing Speed

Phonological Processing

Oral Language Ability

The ability to hear and manipulate the speech sounds in words.

Phonological Processing WJ IV COG Test 5: Phonological Processing



Measures three different aspects of speech sound processing:

- Word Access
 "Toll mo a word that starts with
- "Tell me a word that starts with the /ch/ sound."
- Word Fluency

 Timed for 1 minute; words that begin with a sound.
- Substitution
- Substitute one sound in a word for another; change the /s/ in sun to /f/.

Phonological Processing WJ IV COG (Extended) Test 12: Nonword Repetition



- Listen to and repeat nonsense words that increase in length (e.g. zab, philistationing)
- Measures phonological short-term memory for speech sounds
- Related to both speech/language impairments and dyslexia

- Although their skills differ, students with dyslexia have poorer nonword repetition skills when compared to age peers and reading-level controls.
- Variability in performance is predicted by oral language skills.
- Students with combined dyslexia and specific language disorders have the most severe nonword repetition impairments.

Melby-Lervag, M., & Lervag, A. (2012). Oral language skills moderate nonword repetition skills in children with dyslexia: A meta-analysis of the role of nonword repetition skills in dyslexia. *Scientific Studies of Reading, 16,* 1-34.

Phonological Processing WJ IV OL Test 3: Segmentation



This test combines with Blending to form the WJ IV OL Phonetic Coding cluster, and includes the two most important early phonological awareness abilities:

- Blending
- Pushing speech sounds together
- Underlies using phonics for reading
- Segmentation
- · Pulling sounds apart
- · Underlies breaking apart sounds for spelling

Segmentation

- Compound Words
- Syllables
- Phonemes (single speech sounds)

Phonological Processing When to administer Blending and Segmentation...



- If Word Attack (reading phonically regular nonsense words) is average or above average: **no need to administer Blending and Segmentation**.
- If Word Attack is below average: administer Blending and Segmentation.

Phonology and Orthography

Phonology: the sounds of a language

Orthography: the marks of a writing system, including the spelling patterns

Dyslexia can be caused by problems in phonology or orthography or both.

Orthographic Awareness

Test 4: Letter-Pattern Matching

- Provides a measure of perceptual speed and orthographic processing.
- Good readers and spellers will quickly note the matching pair which is a common English spelling pattern (e.g., th, oa); the others are not (e.g., ao, hx).

| | | Johnson | | | | | | |
|------|-----|---------|--|---|--|--|--|--|
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| i1 | H | | | | | | | |
| N | h | | | | | | | |
| L | .R' | х | | | | | | |
| ж | bk | fv | | | | | | |
| nh - | jh | TEA | | | | | | |
| | | | | | | | | |

Working Memory

- Ability to hold information and then re-order/re-arrange it within a short period of time
- Requires memory as well as attentional control

Short-term Working Memory

- Test 3: Verbal Attention
 - Listen to a string of numbers and animals, then answer a question.
- Test 10: Numbers Reversed
 - Listen to, then repeat, a string of digits in reverse order.
- Test 16: Object-Number Sequencing
 - Listen to a string of things and numbers. Then list the things. After things, list the numbers.

Associative Memory

Visual-Auditory Paired Associate Learning (PAL)

"...recent research suggests that visualverbal PAL may be a unique crossmodal associative learning mechanism that is specific to the creation of mappings between visual (orthographic) and phonological stimuli..." (p. 46).

Warmington, M., & Hulme, C. (2012). Phoneme awareness, visual-verbal paired associate learning, and rapid automatized naming as predictors of individual differences in reading ability. *Scientific Studies of Reading, 16,* 45-62.

"...the learning of mappings between orthography and phonology is critical for learning to read and likely operates at numerous levels, including the process of learning letter-sound correspondences and the learning of mappings at the level of single letters, letter groups, and whole words when acquiring a word recognition system" (p. 47).

Warmington, M., & Hulme, C. (2012). Phoneme awareness, visual-verbal paired associate learning, and rapid automatized naming as predictors of individual differences in reading ability. *Scientific Studies of Reading*, 16, 45-62.

Research Findings regarding RAN

(a) RAN letters and then numbers are the strongest predictors of both reading and spelling.

(b) RAN is distinct from phonological awareness.

(c) the contribution of RAN is larger for younger readers and readers with more severe reading disabilities.

(d) pause time is significantly correlated with reading accuracy and fluency, whereas articulation time is not.

(e) RAN is more highly related to speeded measures of reading than accuracy.

(f) RAN is a good predictor of orthographic skills, but not phonic skills.





A modified RAN task that along with Retrieval Fluency contributes to the Speed of Lexical Access cluster.

Examinee is asked to name pictures of common objects quickly.

Processing Speed

- The ability to perform simple clerical tasks quickly using symbols such as letters or numbers
- Related to orthographic processing and the acquisition of basic skills
- Relevant to a need for extended time

Perceptual Speed
WJ IV COG Tests



- WJ IV COG Test 4: Letter-Pattern Matching
- WJ IV COG (Extended) Test 11: Number-Pattern Matching

Cognitive Efficiency WJ IV COG Tests

Woodcock ohnson IV

A measure of short-term working memory and perceptual speed.

Standard Cluster

- Test 4: Letter-Pattern Matching
- Test 10: Numbers Reversed

Extended Cluster WJ IV COG

- Test 3: Verbal Attention
- · Test 11: Number-Pattern Matching

Tim's Cognitive Abilities

| CLUSTERS | SS | RPI | Proficiency | Implications |
|---------------------|-----|-------|-------------|----------------|
| FLUID REASONING | 113 | 97/90 | avg to adv | easy |
| VISUAL PROCESSING | 100 | 90/90 | average | manageable |
| PHONEMIC AWARE | 131 | 98/90 | advanced | easy |
| AUDITORY MEM SPAN | 111 | 97/90 | avg to adv | easy |
| L-T RETRIEVAL (Gir) | 109 | 93/90 | average | manageable |
| WORKING MEMORY | 85 | 54/90 | limited | very difficult |
| PERCEPTUAL SPEED | 73 | 56/90 | limited | very difficult |

Tim's Oral Language and **Reading Grade 6**

| CLUSTER/Test | SS | RPI | Proficiency | Implications |
|----------------------|-----|-------|--------------|---------------------|
| ORAL LANG | 104 | 92/90 | average | manageable |
| READING | | | | |
| Word Attack | 80 | 16/90 | very limited | extremely difficult |
| Letter-Word Identif. | 86 | 39/90 | limited | very difficult |
| Passage Compre | 84 | 52/90 | limited | very difficult |
| Reading Fluency | 75 | 45/90 | limited | very difficult |

Conclusion:

Multiple cognitive and linguistic abilities can impact reading and spelling development.

Difficulties and Correlates

Summary

"Perhaps the most significant contribution of this body of work for practitioners at the current time ... is to demonstrate the need for caution against too great an adherence to an overly simplistic phonological model" (p. 81).

A greater emphasis is needed on the role of underlying auditory, visual and attentional factors.

Source: Elliott, J. G., & Grigorenko, E. L. (2014). The dyslexia debate. New York, NY: Cambridge University Press.

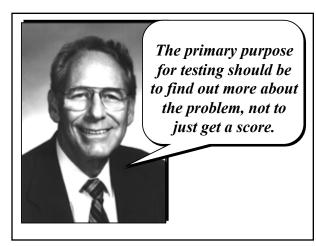


Dr. Alan Kaufman

comprehensive assessment to drive intervention. This is the way it has always been, and this is the way it will always be because the referral questions for children with SLD have always asked, What is wrong? And how can we help? These questions demand differential diagnosis, a large part of which is determined by the cognitive abilities present in the individual child (p. 211). Source: Kaufman, A. S., Lichtenberger, E. O., Fletcher-Janzen,

... there is a demand for the

E., & Kaufman, N. L. (2005). Essentials of the K-ABC-II Assessment. New York: John Wiley & Sons.



And to find more about the factors that will facilitate performance... We shouldn't ask: How smart you are... but instead: How are you smart? - H. Gardner

Documenting Intact Abilities

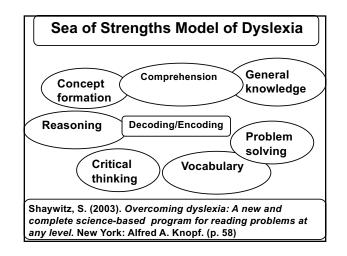
- Determine the relevant and relative strengths (intact abilities) for the person's age and the educational and vocational demands.
- Can use the WJ IV Comparison and Variation procedures to document both strengths and weaknesses.

| C. Ability to Learn When Reading is Not Required Check the areas that are significantly higher than the individual's reading and spelling skills. | | | | | | | |
|---|---|--|--|--|--|--|--|
| Cognitive Abilities General intelligence Reasoning | Oral Language Oral expression Listening comprehension Vocabulary ⁵ | Mathematics Math calculation skills Math problem solving | Knowledge General information ⁴ Academic knowledge ⁴ | | | | |

Essence of a Learning Disability Basic concept of a PSW approach

"...generalized integrity and a deficiency in learning (p. 9)...there is a deficit in learning in the presence of basic integrity" (p. 25).

Source: Johnson, D. J., & Myklebust, H. R. (1967). Learning disabilities: Educational principles and practices. New York: Grune & Stratton.



Procedures for Dyslexia Identification



Comparisons and Variations

- Comparisons (or discrepancies): a score used to predict performance in an area
- Predicted score is based on score of the predictor (e.g., Broad Oral Language cluster to Basic Reading Skills)
- Variations: a comparison of abilities to identify a pattern of strengths and weaknesses
 - Predicted score is based on a core set of other abilities

Procedures for Dyslexia Identification Two Basic Concepts Unexpected underachievement

Expected underachievement

Procedures for Dyslexia Identification

Basic Concepts - Unexpected Underachievement

Reading performance is below what would be predicted based upon one's other cognitive/linguistic and/or academic abilities (e.g., oral vocabulary, math). (Discrepancy model).

Procedures for Dyslexia Identification

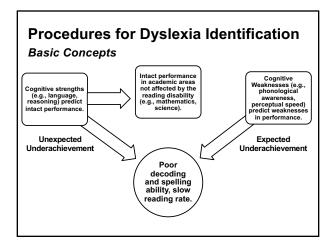
Basic Concepts - Expected Underachievement

Reading performance is in line with cognitive/linguistic weaknesses- the weakness(es) predict the poor academic performance (e.g., poor phonological awareness predicts poor phonics skills). (Consistency model)

Procedures for Dyslexia Identification Basic Concepts

"We are coming to recognize that deficiencies in certain cognitive processes are indicators of LD that predict and, therefore, result in expected underachievement" (p. 239).

Source: Learning disabilities: Implications for policy regarding research and practice: A report by the National Joint Committee on Learning Disabilities March 2011. *Learning Disability Quarterly*, *34*, 237-241.



"Knowledgeable practitioners also use clinical judgment to determine which approach is applicable for a given child or in a given school setting. While regulations and policies require school districts to implement a single approach, best practice may reside somewhere in the margins with a hybrid model" (p. 6).

Source: Kovaleski, J. F., Lichtenstein, R., Naglieri, J., Ortiz, S. O., Klotz, M. B., & Rossen, E. (2015). Current perspective in the identification of specific learning disabilities. *Communique*, *44*(4), 4, 6.

Two Procedures for Dyslexia Identification

- Comparisons (discrepancies) between overall ability (Gf-Gc Composite, General Intellectual Ability) or Oral Language Ability, Academic Knowledge) and reading performance
- Variations among abilities: a pattern of strengths and weaknesses (intraindividual variations)

Procedures for Dyslexia Evaluation

Three Most Relevant Clusters for Ability-Achievement Comparisons

- WJ IV Tests of Cognitive Abilities
- Gf-Gc Composite/Other Ability
- WJ IV Tests of Oral Language
- Broad Oral Language Cluster
- WJ IV Tests of Achievement
- Academic Knowledge Cluster

Compare Cluster Scores to: WJ IV Tests of Achievement

- · Basic Reading Skills
- Phoneme-Grapheme Knowledge
- Reading Fluency
- · Reading Rate

Procedures for Dyslexia Evaluation *Some Abilities are More Important than Others*



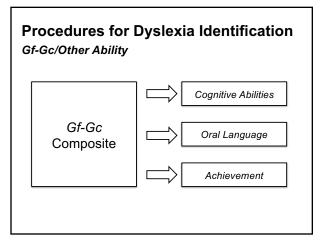
Reasoning (*Gf*) Oral Language (*Gc*)

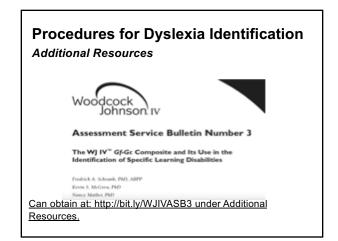
Phonological Awareness (*Ga*) Perceptual Speed (*Gs*)

Procedures for Dyslexia Evaluation *Gf-Gc/Other Ability*

Compares *Gf-Gc* composite to current levels of achievement or oral language abilities or other cognitive abilities to determine if a discrepancy exists.

- Requires *Gf-Gc* composite (*WJ* IV COG Tests 1, 2, 8, 9)
- Determines the presence of significant strengths or weaknesses between an individual's higher-level, more complex abilities (reasoning and knowledge) and his or her achievement, and other abilities (cognitive or oral language)



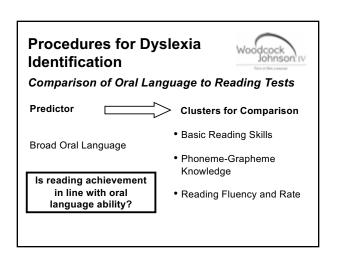


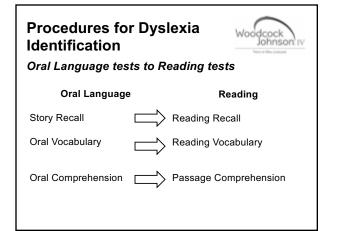
In general, many students with dyslexia have higher scores on measures of:

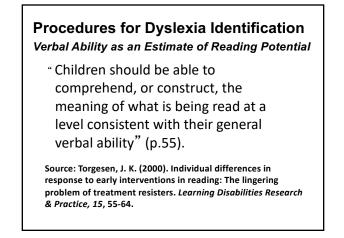
- Oral language
- Knowledge
- Reasoning
- Mathematics

with lower scores on measures of:

- Basic reading skills
- Reading fluency and rate
- Spelling
- Specific cognitive correlates



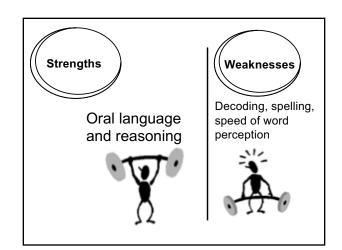






Academic Knowledge/Reading Comparisons

- Academic Knowledge is used to predict achievement; full length tests of Science, Social Studies, and Humanities are administered orally
- Academic Knowledge can be compared to all reading and writing clusters
- Helps determine if reading and writing are discrepant from Academic Knowledge

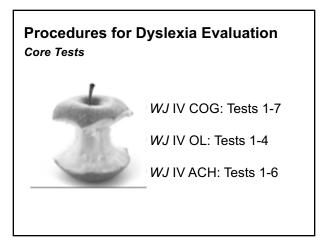


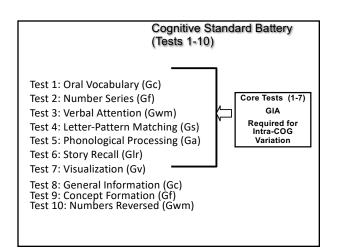
Procedures for Dyslexia Evaluation

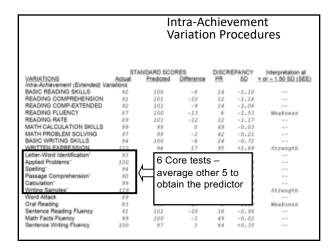
Four Variation Procedures

- Intra-Cognitive
- Intra-Oral Language
- Intra-Achievement
- Academic Skills/Academic Fluency/Academic Applications

Four variation procedures help document an individual's pattern of strengths and weaknesses based on the "**core**" tests in each battery.

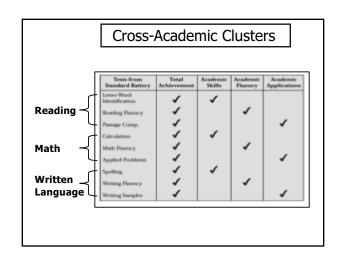






For additional tests and clusters, the predicted score is based on the same predictor as the core test (ACH 1-6) that measures a similar skill. Example:

If Test 7: Word Attack were administered, both the Word Attack test and Basic Reading Skills cluster would be added into the variation procedure. They would be compared to the same predictor (the average of the other 5 core tests-Tests 2-6) as Test 1: Letter-Word Identification, a measure of basic reading skills.



Academic Skills/Fluency/Application

Within the WJ IV ACH, you can compare:

- Academic Skills (basic academic skills)
- Academic Fluency (timed measures)
- Academic Applications (problem solving and reasoning)

Many individuals with dyslexia will have:

Academic Applications cluster > Academic Skills or Academic Fluency clusters.

| F | Rand | y, Gra | ade 1 | 1 | | |
|--|--------|---|------------|----|---|---|
| VARIATIONS Academic Skills/Academic Fluency ACADEMIC SKILLS ACADEMIC FLUENCY ACADEMIC APPLICATIONS | Actual | NDARD SCO Predicted pplications /E 102 94 89 | Difference | PR | EPANCY SD -3.26 +0.29 +1.88 | Interpretation at + or - 1 50 SD (SEE) Weakness |
| 161 | | | | | | |

WJ III Academic Fluency Cluster was the single most important

variable in differentiating between college students with and without learning disabilities.

CHC CFA of WJ-III, WAIS-III, WMS-III and KAIT- University Students with and without LD (McGrew, Gregg, Hoy, Stennett, Davis, Knight, Coleman & Ford, 2001)

Reading Fluency/Rate Clusters

- Reading Fluency (Oral and Silent Reading) —Oral Reading (Oral)
 - -Sentence Reading Fluency (Silent)
- Reading Rate (Silent Reading)
 - -Sentence Reading Fluency
 - -Word Reading Fluency

D. At-Risk Indicators Check the areas below that are additional at-risk factors. Family history Early speech-language concerns

Two questions you want to ask:

Did anyone in the family have difficulty learning to read?

Did the student have difficulty with speech or language development?

Hereditary Factors

Strong converging evidence suggests that:

- 1. Dyslexia has a genetic basis but there is not one specific gene for reading.
- 2. Family history is a key risk indicator.

Reason for Referral

- Brayden's mother is concerned about his struggle with reading despite numerous interventions in the past
- The conclusion from prior testing has always been that the problem is "developmental" with the assumption that he will catch up.
- Teachers have expressed concerns about effort and attention.
- The mother wishes to know what factors are impeding performance and what they can do to help their son.

- Grade 3.8
- Age 9-8

Moved states and schools five times Home schooled at times

| Intra | -Achie | eveme | ent Var | riatio | ns | |
|-----------------------------------|--------|------------|-----------|--------|-------|-------------------|
| | ST | ANDARD SCO | RES | DISCR | PANCY | Interpretation at |
| VARIATIONS | Actual | Predicted. | D Menence | PR | 50 | + or -1.50 SD (SE |
| Intra-Achievement [Extended] Vari | ations | | | | | |
| BASIC READING SKILLS | 82 | 101 | -19 | 1 | -2.44 | Weakness |
| READING COMPREHENSION | 95 | 98 | -3 | 35 | -0.37 | - |
| READING FLUENCY | 77 | 101 | -24 | 0.4 | -2.67 | Weakness |
| READING RATE | 78 | 99 | -21 | 2 | -2.01 | Weakness |
| MATH CALCULATION SKILLS | 111 | 96 | 15 | 92 | +1.42 | - |
| MATH PROBLEM SOLVING | 113 | 96 | 17 | 94 | +1.55 | Strength |
| BASIC WRITING SKILLS | 89 | 100 | -11 | 10 | -1.29 | - |
| Letter-Word Identification | 80 | 101 | -21 | 0.4 | -2.62 | Weakness |
| Applied Problems | 112 | 95 | 17 | 94 | +1.53 | Strength |
| Spelling | 89 | 100 | -11 | 12 | -1.19 | - |
| Passage Comprehension | 95 | 98 | -3 | 34 | -0.41 | - |
| Calculation | 107 | 96 | 11 | 85 | +1.02 | - |
| Writing Samples | 105 | 97 | | 74 | +0.66 | - |
| Word Attack | 84 | 101 | -17 | 6 | -1.54 | Weakness |
| Oral Reading | 87 | 101 | -54 | 10 | -1.27 | - |
| Sentence Reading Fluency | 76 | 99 | -23 | 1 | -2.23 | Weakness |
| Math Facts Fluency | 112 | 97 | 15 | 90 | +1.29 | - |
| Reading Recall | 97 | 99 | -2 | 42 | -0.21 | - |
| Number Matrices | 111 | 97 | 54 | 86 | +1.06 | - |
| Editing | 88 | 100 | -12 | 11 | -1.23 | - |
| Word Reading Fluency | 81 | 99 | -18 | 5 | -1.62 | Weakness |
| Spelling of Sounds | 92 | 100 | -8 | 24 | -0.70 | - |

Intra-Cognitive Variations

| | ST/ | ANDARD SCO | RES | DISCR | EPANCY | Interpretation |
|---------------------------------------|--------|------------|------------|-------|--------|------------------|
| VARIATIONS | Actual | Predicted | Difference | PB | SD | + or -1.50 SD (5 |
| Intra-Cogn/tive [Extended] Variations | | | | | | |
| COMP-KNOWLEDGE (Gd) | 117 | 93 | 24 | 97 | +1.93 | Strength |
| COMP-KNOWLEDGE 3 | 118 | 93 | 25 | 98 | =2.07 | Strength |
| FLUID REASONING (G/) | 111 | 94 | 17 | 95 | +1.65 | Strength |
| FLUID REASONING 3 | 111 | 94 | 17 | 96 | +1.76 | Strength |
| S-TERM WORK MEM (Gwm) | 81 | 98 | -17 | 8 | -1.44 | - |
| S-TERM WORK MEM 3 | 88 | 98 | -10 | 18 | -0.92 | - |
| COG PROCESS SPEED (Ga) | 76 | 100 | -24 | 4 | -1.80 | Weakness |
| AUDITORY PROCESS (Ga) | 90 | 99 | -9 | 24 | -0.70 | - |
| L-TERM RETRIEVAL (GIr) | 94 | 99 | -5 | 34 | -0.42 | - |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | STANDARD SCORES | | | DISCRI | EPANCY | Interpretation at |
|---------------------------------------|-----------------|-----------|------------|--------|--------|--------------------|
| VARIATIONS | Actual | Predicted | Difference | PR | SD. | + or -1.50 SD (SEE |
| Intra-Cognitive (Extended) Variations | | | | | | |
| VISUAL PROCESSING (Gv) | 119 | 95 | 24 | 96 | +1.76 | Strength |
| QUANTITATIVE REASONING | 110 | 94 | 16 | 95 | +1.62 | Strength |
| AUDITORY MEMORY SPAN | 95 | 98 | -3 | 38 | -0.30 | - |
| PERCEPTUAL SPEED | 75 | 100 | -25 | 2 | -1.98 | Weakness |
| VOCABULARY | 119 | 93 | 26 | 99 | +2.29 | Strength |
| ORAL LANGUAGE | 111 | 93 | 18 | 93 | +1.49 | - |
| PHONETIC CODING | 118 | 99 | 19 | 93 | +1.51 | Strength |
| Oral Vocabulary | 119 | 93 | 26 | 99 | +2.38 | Strength |
| Number Series | 111 | 95 | 16 | 91 | +1.35 | - |
| Verbal Attention | 89 | 98 | -9 | 22 | -0.76 | - |
| Letter-Pattern Matching | 75 | 100 | -25 | 3 | -1.92 | Weakness |
| Phonological Processing | 83 | 90 | -16 | 8 | -1.37 | - |
| Story Recall | 85 | 99 | -54 | 13 | -1.14 | - |
| Visualization | 114 | 95 | 19 | 93 | +1.45 | - |
| General Information | 115 | 94 | 21 | 93 | +1.47 | - |

| Intra | -Oral L | angu | age Va | ariat | ions | |
|----------------------------------|-----------|------------|------------|-------|------------|---------------------|
| | ST | ANDARD SCO | RES | DISCR | EPANCY | Interpretation at |
| VARIATIONS | Actual | Predicted | Difference | PR | <u>\$D</u> | + or -1.50 SD (SEE) |
| Intra-Oral Language [Extended] V | ariations | | | | | |
| ORAL EXPRESSION | 104 | 102 | 2 | 58 | +0.20 | - |
| PHONETIC CODING | 118 | 103 | 15 | 87 | +1.12 | - |
| VOCABULARY | 119 | 102 | 17 | 94 | +1.53 | Strength |
| AUDITORY PROCESS (Ga) | 90 | 103 | -13 | 18 | -0.90 | - |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | STANDARD SCORES | | DISCR | PANCY | interpretation at |
|---------------------------------|------------|-----------------|------------|-----------|-------|--------------------|
| COMPARISONS | Actual | Predicted | Ofference. | PR | 82 | * pr -1.50 SD (SE) |
| G1-Gc Composite/Other Ability C | omparisons | | | | | |
| S-TERM WORK MEM 3 | 88 | 110 | -22 | 3 | -1.88 | Weakness |
| COG PROCESS SPEED (Sx) | 76 | 106 | -30 | | -2.23 | Weakness |
| PERCEPTUAL SPEED | 75 | 107 | -32 | | -2.38 | Weakness |
| AUDITORY PROCESS (Ga) | 90 | 109 | -19 | | 1.54 | Weakness |
| PHONETIC CODING | 118 | 108 | 10 | 77 | +0.74 | |
| L-TERM RETRIEVAL (GP) | 94 | 109 | -15 | 11 | -1.20 | |
| VISUAL PROCESSING (0v) | 119 | 108 | 11 | 79 | +0.81 | |
| AUDITORY MEMORY SPAN | 95 | 107 | -12 | 16 | -0.98 | - |
| NUMBER FACILITY | 75 | 108 | -33 | 0.5 | -2.58 | Weakness |
| DOGNITIVE EFFICIENCY | 73 | 109 | -36 | 0.3 | 2.76 | Weakness |
| COG EFFICIENCY (Ext) | 74 | 109 | -35 | 0.2 | -2.82 | Weakness |
| BRIEF ACHIEVEMENT | 91 | 112 | -21 | | -2.24 | Weakness |
| READING | 85 | 112 | -27 | 0.5 | -2.59 | Weakness |
| BROAD READING | 82 | *** | -29 | 0.2 | -2.81 | Weakness |
| BASIC READING SKILLS | 82 | 110 | -29 | 0.5 | -2.58 | Weakness |
| READING COMPREHENSION | 95 | 111 | -10 | | -1.52 | Weakness |
| READING FLUENCY | 77 | 109 | -32 | 0.3 | 4.73 | Weahness |
| READING RATE | 78 | 108 | -30 | | -2.48 | Weakness |
| MATHEMATICS. | 110 | 112 | -2 | 42 | -0.21 | |
| BROAD MATHEMATICS | 112 | 112 | 0 | 49 | -0.02 | |
| MATH CALCULATION SKILLS | 111 | 110 | 1 | 51 | +0.01 | |
| MATH PROBLEM SOLVING | 113 | 112 | | 51 | +0.03 | - |
| WRITTEN LANGUAGE | 96 | 110 | -54 | 10 | -1.28 | |
| BASIC WRITING SKILLS | 89 | 110 | -21 | 3 | -1.96 | Weakness |
| ACADEMIC SKULS | 89 | 112 | -23 | 2 | -2.12 | Weakness |
| ACADEMIC APPLICATIONS | 104 | 113 | -9 | 19 | -0.88 | - |

| GIA/Achievement Comparisons | | | | | | | | |
|--|---------------|-----------------|-------------------|----|-------------|---------------------------------------|--|--|
| COMPARISONS. | <u>Achusi</u> | STANDARD SCORES | <u>Difference</u> | | PANCY 12 | Significant at + ar -1.50 SD (SEE) | | |
| BIA /Achievement Discrepancy F | | | | | | | | |
| BRIEF ACHEVEMENT READING | 85 | 95 | -4 | 34 | -0.42 | No | | |
| BROAD READING | 82 | 15 | -10 | | -1.42 | No | | |
| BROAD READING SKILLS | 82 | 25 | -13 | | -1.42 | No | | |
| READING COMPREHENSION | 95 | 15 | 0 | 49 | -0.03 | No | | |
| READING CONPREHENDION READING FLUENCY | 77 | | -19 | -9 | -1.67 | | | |
| READING PLUENUT | 78 | 35 | -18 | 5 | -1.65 | Yes (-) Yes (-) | | |
| | | | | | | | | |

| Academic Ki | owieus | ge/Acme | evem | ent | Lom | parisons |
|------------------------------|---------------|--------------|-------------|--------|-------|---------------------|
| | STA | NDARD SCORES | | DISCRI | PANCY | Significant at |
| COMPARISONS | Actual | Eredicted. | Difference. | PR. | 50 | 1 or -1.50 SD (SEE) |
| Academic Knowledge/Achieveme | et Comparison | | | | | |
| BRIEF ACHIEVEMENT | 91 | 106 | -15 | 10 | -1.29 | No |
| READING | 85 | 107 | -22 | 5 | -1.67 | Yes (-) |
| BROAD READING | 82 | 106 | -24 | 3 | -1.85 | Yes (-) |
| BASIC READING SKILLS | 82 | 105 | -23 | 3 | -1.91 | Yes (-) |
| READING COMPREHENSION | 95 | 106 | -11 | 21 | -0.82 | No |
| READING FLUENCY | 77 | 104 | -27 | э | -1.93 | Yes (-) |
| READING RATE | 78 | 104 | -26 | э | -1.83 | Yes (-) |
| MATHEMATICIS | 110 | 106 | 4 | 62 | +0.30 | No |
| BROAD MATHEMATICS | 112 | 106 | 6 | 68 | +0.45 | No |
| MATH CALCULATION SKILLS | 111 | 106 | 5 | 64 | +0.36 | No |
| MATH PROBLEM SOLVING | 113 | 106 | 7 | 70 | +0.51 | No |
| WRITTEN LANGUAGE | 96 | 106 | -10 | 21 | -0.82 | No |
| BASIC WRITING SKILLS | 89 | 106 | -17 | | -1.39 | No |
| ACADEVIC SKILLS | 89 | 106 | -17 | 9 | -1.31 | No |
| ACADEMIC APPLICATIONS | 104 | 108 | -4 | 39 | -0.29 | No |
| PHONETIC CODING | 118 | 104 | 14 | 84 | +0.98 | No |

Possible Recommendations

- Consult with Brayden's pediatrician regarding ADHD.
- Collect rating scales from last year's teachers.
- Consider eligibility for SLD services.
- Provide preferential seating in the front of the room near the teacher's desk.
- Break assignments into smaller segments.
- After listening to directions, ask Brayden to paraphrase what he is supposed to do.

Reading

- Begin an online reading intervention, Mindplay Virtual Reading Coach (MVRC), 30 minutes 5 times a week during the summer, continuing into the school year (<u>www.mindplay.com</u>).
- Continue working with a reading specialist who understands evidence-based reading instruction; the initial instruction should focus on structural analysis, breaking words into parts to make them easier for Brayden to pronounce.

Mathematics

Continue tutoring in mathematics:

- Reteach the concept of place value.
- Review two-digit multiplication.
- Review simple division.
- Provide practice counting money.

Consider use of an online math program, such as ALEKS to supplement instruction (https://www.aleks.com).

"Failure to learn to read as others do is a major catastrophe in a child's life" (p.1).

Source:

Dolch, E. W. (1939). *A manual for remedial reading.* Champaign, IL: Garrard Press.

Self-Esteem

"My ignorance of my dyslexia only intensified my sense of isolation and hopelessness. Ignorance is perhaps the most painful aspect of a learning disability." (p. 64).

Source: Schultz, P. (2011). *My dyslexia*. New York, NY: W. W. Norton & Company.

Summary

When identifying dyslexia, consider:

- Weaknesses in phonics, sight word identification, reading fluency and rate, and spelling
- Weaknesses in specific cognitive/linguistic abilities
- Relative strengths in other areas, such as oral language, reasoning, mathematics, knowledge

Diagnosis and Instruction

"Diagnosis must take *second* place to instruction, and must be made a *tool of instruction*, not an end in itself."

Source: Cruickshank, W.M. (1977). Least-restrictive placement: Administrative wishful thinking. *Journal of Learning Disabilities, 10,* 193-194.

The Value of Tests

"If these tests will give us a basis from which we can start to understand a child's difficulties, they will have justified the time spent on them. Anything which helps educators or parents to **understand** any phase of development or lack of development is of immeasurable value" (p. 189).

Source: Stanger, M. A., & Donohue, E. K. (1937). *Prediction and prevention of reading difficulties*. New York, NY: Oxford University Press.

DYSLEXIA PROFILE (For use with the WJ IV¹)

| (| | |
|--------|---------------|--------------|
| Name | Date of Birth | ID |
| School | Grade | Testing Date |

The [name of state] Education Code [§ statute number] [or country] defines dyslexia in the following way:

International Dyslexia Association Definition (2002)

Dyslexia is a specific learning disability that is neurological 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 problems in reading comprehension and reduced reading experience that can impede the growth of vocabulary and background knowledge.

Authors' note: Dyslexia affects reading at the single word level, reading fluency and rate, and spelling. In turn, these deficits cause difficulties with reading comprehension and written expression. According to research, the major cognitive correlates of dyslexia include weaknesses in one or more of the following abilities: phonological awareness, orthographic awareness, memory, rapid naming, and processing speed. Other abilities, such as general intelligence, reasoning, oral language, mathematics, and knowledge, that do not require reading, are often unimpaired. In other words, the reading and spelling difficulties are often unexpected in relation to the student's other abilities.

Section I: Summary

A. Primary and Secondary Reading, Spelling, and Writing Difficulties

Check the areas of concern.

| Primary Reading an | d Spelling Difficulties | Secondary Reading and Writing Difficulties | | | | | | |
|---|---------------------------------------|---|--|--|--|--|--|--|
| Letter-sound associations | | Reading comprehension | | | | | | |
| Letter names | | Written expression | | | | | | |
| Letter sounds | | | | | | | | |
| Basic reading skills | | | | | | | | |
| Sight word identification | | | | | | | | |
| Phonics (nonword/word deco | oding) | | | | | | | |
| Reading fluency and rate | | | | | | | | |
| Spelling in isolation in co | ntext | | | | | | | |
| B. Cognitive and Linguistic Abilities: Possible Contributing Factors Check the areas that are possible contributing factors. | | | | | | | | |
| Phonological awareness² Auditory processing Phonetic coding | ☐ Orthographic awareness ³ | Memory Auditory memory span Short-term working memory Associative memory | Rapid naming Processing speed | | | | | |
| Check the | - | Reading is Not Required han the individual's reading and spell | ing skills. | | | | | |
| Cognitive Abilities | Oral Language | Mathematics | Knowledge | | | | | |
| General intelligence | Oral expression | Math calculation skills | General information ⁴ | | | | | |
| 🗌 Reasoning | Listening comprehension | Math problem solving | | | | | | |
| | ☐ Vocabulary ⁵ | | | | | | | |
| D. At-Risk Indicators Check the areas below that are additional at-risk factors. Family history Early speech-language concerns | | | | | | | | |
| | Committee C | Consideration | | | | | | |
| 🗌 Data demonstrate characteristi | ics of dyslexia. 🗌 Data dei | monstrate characteristics of dyslexia; | however, these characteristics | | | | | |

Data do not demonstrate characteristics of dyslexia.

Data demonstrate characteristics of dyslexia; however, these characteristics would not be consistent with [State] guidelines for the identification of dyslexia.

Evaluator(s) _____

Date:

Section II: Scores (For use with the WJ IV¹)

| Ar | ea Tested | Battery | Cluster/Test | Standard Score | Percentile Rank | SS/PR Classification | RPI ⁶ |
|---|---|-----------|---|-------------------|--------------------|-------------------------|------------------|
| Primary Reading and Spelling Difficulties | Letter- Sound Associations | Informal | Letter names: Poor Typical Advanced Case: Lower/26 Upper/26 Letter sounds: Poor Typical Advanced Consonants Vowels | | | | |
| iffi | Basic Reading | WJ IV ACH | Test 1: Letter-Word Identification | | | | /90 |
| g D | Skills | | Test 7: Word Attack | | | | /90 |
| llin | | | Reading Fluency | | | | /90 |
| be | Reading Fluency/Rate WJ IV ACH | | Test 8: Oral Reading | | | | /90 |
| s p | | | Test 9: Sentence Reading Fluency | | | | /90 |
| an | | WJIV ACI | Reading Rate | | | | /90 |
| ing | | | Test 9: Sentence Reading Fluency | | | | /90 |
| ead | | | Test 15: Word Reading Fluency | | | | /90 |
| r Re | a a a a a a a a a a a a a a a a a a a | | Test 3: Spelling | | | | /90 |
| ary | Spelling | WJ IV ACH | Test 16: Spelling of Sounds | | | | /90 |
| Prim | opening | with Acht | Spelling in Context: □Poor □Typical □Adv. (Test 6: Writing Samples) | | | | |
| | Phoneme - | | Phoneme-Grapheme Knowledge | | | | /90 |
| | Grapheme | WJ IV ACH | Test 7: Word Attack | | | | /90 |
| | Knowledge | | Test 16: Spelling of Sounds | | | | /90 |
| e ies | | - WIWΔ(Η | Reading Comprehension | | | | /90 |
| ding | Reading Comprehension Written Expression | | Test 4: Passage Comprehension | | | | /90 |
| Rea | | | Test 12: Reading Recall | | | | /90 |
| Secondary Reading nd Writing Difficultie | | | Test 17: Reading Vocabulary (Ext.) | | | | /90 |
| nd: 'ritii | \A/witt = | | Written Expression | | | | /90 |
| e co N K | Written Expression | WJ IV ACH | Test 6: Writing Samples | | | | /90 |
| S anc | LAPIESSION | | Test 11: Sentence Writing Fluency | | | | /90 |

| Ar | rea Tested | Battery | Test Date | Cluster/Test | Standard Score | Percentile Rank | SS/PR Classification | RPI ⁶ |
|---|------------------------|-----------|--------------|---|-------------------|--------------------|-------------------------|------------------|
| | | | | Auditory Processing | | | | /90 |
| | | WJ IV COG | | Test 5: Phonological Processing | | | | /90 |
| | | | | Test 12: Nonword Repetition | | | | /90 |
| | Phonological | | | Phonetic Coding | | | | /90 |
| | Awareness ² | WJ IV OL | | Test 3: Segmentation | | | | /90 |
| S | Awareness | VVJ IV OL | | Test 7: Sound Blending | | | | /90 |
| Cognitive and Linguistic Abilities: Possible Contributing Factors | | | | Test 9: Sound Awareness | | | | /90 |
| aci | | WJ IV ACH | | Test 7: Word Attack ⁴ | | | | /90 |
| l gr | VI IV | | | Test 16: Spelling of Sounds ⁴ | | | | /90 |
| utir | | WJ IV COG | | Test 4: Letter-Pattern Matching | | | | /90 |
| ribı | | | | Test 11: Number-Pattern Matching | | | | /90 |
| onti | Orthographic | | | Test 1: Letter-Word Identification | | | | /90 |
| U U | Awareness ³ | WJ IV ACH | | Test 3: Spelling | | | | /90 |
| ible | | | | Test 7: Word Attack ⁴ | | | | /90 |
| ossi | | | | Test 16: Spelling of Sounds ⁴ | | | | /90 |
| Pc | | WJ IV OL | | Auditory Memory Span | _ | | | /90 |
| ies | | WJ IV COG | | Test 5: Sentence Repetition | | | | /90 |
| ilit | Memory | | | Test 18: Memory for Words | | | | /90 |
| Ab | | | | Short-Term Working Memory Test 3: Verbal Attention | | | | /90 |
| stic | | | | Test 10: Numbers Reversed | | | | /90 /90 |
| guis | | | | | | | | /90 /90 |
| Ling | | | | Test 16: Object-Number Sequencing (Ext.) Associative Memory | | | | 790 |
| l pr | | | | Test 13: Visual-Auditory Learning | | | | /90 |
| e ar | | WJ IV OL | | Speed of Lexical Access | | | | /90 |
| tive | Rapid Naming | | | Test 4: Rapid Picture Naming | | | | /90 |
| gni | | | | Test 8: Retrieval Fluency | | | | /90 |
| Ĉ | | | | · · · · · | | | | /90 |
| | | | | Cognitive Processing Speed | | | | |
| | | WJ IV COG | | Test 4: Letter-Pattern Matching | | | | /90 |
| | Processing Speed | | | Test 17: Pair Cancellation | | | | /90 |
| | Speed | | | Perceptual Speed | | | | /90 |
| | | WJ IV COG | | | | | | /90 |
| | | | | Test 11: Number–Pattern Matching | | | | /90 |
| | C | wJ IV COG | | Test 4: Letter-Pattern Matching Test 11: Number–Pattern Matching uistic Abilities: Possible Contributin | ng Factors/ | Comment | ts | |

| Are | a Tested | Battery | Cluster/Test | Standard Score | Percentile Rank | SS/PR Classification | RPI ⁶ |
|---|------------------|-----------|--|-------------------|--------------------|-------------------------|------------------|
| | | | General Intellectual Ability (GIA) | | | | /90 |
| | | | Test 1: Oral Vocabulary (Gc) | | | | /90 |
| | | | Test 2: Number Series (<i>Gf</i>) | | | | /90 |
| | | WJ IV COG | Test 3: Verbal Attention (Gwm) | | | | /90 |
| | | WJ IV COU | Test 4: Letter-Pattern Matching (Gs) | | | | /90 |
| | | | Test 5: Phonological Processing (Ga) | | | | /90 |
| | | | Test 6: Story Recall (Glr) | | | | /90 |
| | | | Test 7: Visualization (Gv) | | | | /90 |
| Ability to Learn When Reading is Not Required | | | Test 15: Analysis-Synthesis | | | | |
| nin | | | <i>Gf-Gc</i> Composite | | | | /90 |
| eq | Reasoning | | Test 1: Oral Vocabulary (<i>Gc)</i> | | | | /90 |
| L R | and Knowledge | WJ IV COG | Test 2: Number Series (<i>Gf</i>) | | | | /90 |
| 2 N | | | Test 8: General Information (Gc) | | | | /90 |
| <u>ıs</u> | | | Test 9: Concept Formation (Gf) | | | | /90 |
| 8u | | WJ IV OL | Oral Expression | | | | /90 |
| adi | | | Test 1: Picture Vocabulary | | | | /90 |
| Re | Oral Language | | Test 5: Sentence Repetition | | | | /90 |
| L | | | Listening Comprehension | | | | /90 |
| he | | | Test 2: Oral Comprehension | | | | /90 |
| 3 | | | Test 6: Understanding Directions | | | | /90 |
| L L | | | Vocabulary ⁵ | | | | /90 |
| Lea Lea | | | Test 1: Picture Vocabulary | | | | /90 |
| <u>o</u> | | WJ IV COG | Test 1: Oral Vocabulary | | | | /90 |
| Ę | | | Math Calculation Skills | | | | /90 |
| ili | | | Test 5 Calculation | | | | /90 |
| Ak | Mathematics | WJ IV ACH | Test 10: Math Facts Fluency | | | | /90 |
| | | | Math Problem Solving | | | | /90 |
| | | | Test 2: Applied Problems | | | | /90 |
| | | | Test 13: Number Matrices | | | | /90 |
| | | WJ IV COG | Test 8: General Information ⁵ | | | | /90 |
| | | | Academic Knowledge ⁵ | | | | /90 |
| | Knowledge | WJ IV ACH | Test 18: Science | | | | /90 |
| | | | Test 19: Social Studies | | | | /90 |
| | | | Test 20: Humanities | | | | /90 |

Determination of Characteristics of Dyslexia for Committee Consideration/Additional Comments

- 1. The Dyslexia Profile was adapted for use with the Woodcock-Johnson IV Tests of Cognitive Ability, Tests of Achievement, and Tests of Oral Language.
- 2. If the student exhibits reading and spelling difficulties and currently has average phonological/phonemic awareness, review the student's history to determine if there is evidence of previous interventions with phonological/phonemic awareness. Prior effective instruction in phonological/phonemic awareness may remediate these skills in isolation. Thus, average phonological awareness scores alone do not rule out the existence of dyslexia. Ongoing phonological awareness deficits can also be exhibited in word reading and/or spelling.
- 3. A weakness in orthographic awareness can be a significant contributing factor to dyslexia. Orthographic awareness is often assessed through tests of irregular word reading and spelling. A person's recognition and retrieval of orthographic patterns may be ascertained by analysis of the patterns of responses, as well as the scores, on measures of exception word reading and spelling. Students with a weakness in orthographic awareness are more successful in reading and spelling phonically regular words than irregular words and tend to spell irregular words the way they sound, rather than the way they look.
- 4. Test 7: Word Attack and Test 16: Spelling of Sounds are measures of phonics decoding and encoding skills (sounding out or spelling unfamiliar or nonsense words using blending and letter-sound correspondences). They are not pure phonological awareness tasks because they involve letters; however, both phonological and orthographic awareness are both required to read and spell nonsense words.
- 5. Consider that as a person grows older, limited reading affects the development of vocabulary and knowledge.
- 6. The Relative Proficiency Index (RPI) is derived from a mathematical prediction based on the normative data. It predicts a person's expected percentage of proficiency for tasks that the comparison group (age or grade) would perform with 90 percent proficiency. The RPI is recorded as two numbers separated by a slash (/). The first number is the person's expected level of proficiency; the second number is always 90, the criterion of mastery. For example, Jeremy's Word Attack score of 47/90 indicates that when reading unfamiliar words at grade level, his proficiency is likely to be 47% when his average age- or grade-peer's proficiency would be 90%. The following table presents the level of proficiency and the instructional implications of some possible RPI ranges when the person is doing grade- or age-level work (Mather & Jaffe, 2016).

| RPI | Proficiency | Instructional Implications | RPI | Proficiency | Instructional Implications |
|----------------|-----------------------|----------------------------|-----------------|------------------------|----------------------------|
| 67/90 to 82/90 | Limited to Average | Difficult | 95/90 to 98/90 | Average to Advanced | Easy |
| 82/90 to 95/90 | Average | Manageable | 98/90 to 100/90 | Advanced | Very Easy |

Reference: Mather, N., & Jaffe, L. (2016). Woodcock-Johnson IV: Recommendations, reports, and strategies. Hoboken, NJ: John Wiley & Sons.

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