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Some Quick Facts about Dyslexia

What it's not:

- A medical problem that educators don't address
- A vision problemWhen people see things backwards

- A language-based learning disability
 Problems with phonological processing
 Problems with orthographic processing
 Impaired ability to form sound-symbol connections



- 20% of all people have some form of dyslexia
- Dyslexia is a "spectrum disorder" you can have mild, moderate or severe problems
- This is an "educational problem" which is diagnosed educationally, not medically.



Historical Red Flags

- Speech/language skill delays
- A history of reading/spelling problems in relatives
- Ear infections
- Premature birth
- Difficulty learning letters and numbers

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Case Study: 9-year-old third grader

- History of reading/spelling problems father side
- Student struggled with writing his name, identifying letters of the alphabet, and rhyming words.
- Difficulty processing visual symbols on a page
- Pediatric optometrist did not find any significant problems
- Struggled to follow two-step directions

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Wechsler Intelligence Scale for Children-V (WISC-V)

Subtest	SS	%ile	Subtest	SS	%ile
Similarities(S)	13	84	Block Design	9	37
Vocabulary(S)	14	91	Visual Puzzles(S)	12	75
(Information)	(10)	(50)	Visual Spatial	102	55
(Comprehension)	(13)	(84)			
Verbal Comprehension(S)	118	88	Matrix Reasoning	10	50
Verbal (Expanded Crystalized)	(114)	(82)	Figure Weights	11	63
			(Picture Concepts)	(10)	(50)
Digit Span	8	25	(Arithmetic)	(9)	(37)
Picture Span(W)	5	5	Fluid Reasoning	103	58
(Letter-Number Sequencing)	(7)	(16)	Expanded Fluid	(100)	(50)
Working Memory(W)	79	8			
			Coding(W)	2	0.4
Quantitative Reasoning	100	50	Symbol Search	7	16
Auditory Working Memory	87	19	(Cancellation)	(8)	(25)
Nonverbal	86	18	Processing Speed(W)	69	2
General Ability	109	73			
Cognitive Proficiency(W)	71	3	Full Scale IQ	97	42



Information Processing Strength

Receptive & Expressive Language

Comprehensive Receptive & Expressive Vocabulary Test: Third Edition

Subtest	Raw Score	Standard Score	%ile Score	Age Equivalency
Receptive Language	47	111	77	10 yrs9 mos.
Expressive Language	16	107	68	10 years
General Vocabulary Index		111	77	

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Information Processing Weakness

Phonological Processing and Rapid Naming Speed

Comprehensive Test of Phonological Processing-Second Edition (CTOPP-2)

Core Subtests	Score	NPR	Equivalent	Equivalent	Kange
Elision	7	16	7 yrs3 mos.	2.2	Below Average
Blending Words	10	50	9 years	4.0	Average
Phoneme Isolation	7	16	7 years	2.0	Below Average
Memory for Digits	10	50	9 years	4.0	Average
Non-word Repetition	10	50	10 years	5.0	Average
Rapid Digit Naming	4	2	5 yrs9 mos.	K.7	Poor
Rapid Letter Naming	3	1	5 years	K.0	Very Poor
Phonological Awareness	88	21			Low Average
Phonological Memory	101	53			Average
Rapid Symbolic Naming	52	<1			Very Poor

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Information Processing Weakness

Visual ability to copy from a model & recall of symbols

Bender Gestalt II

	Copy Phase	Recall Phase
Time	10'13"	2'17"
Standard Score	85	65
Percentile	16	1
Range	Low Average	Extremely Low



Information Processing Weakness

Perception of Symbol Directionality Orthographic Processing

Jordan Left-Right Reversal Test-Third Edition

Score Summary	Standard Score	Percentile	Range
Accuracy	<65	<1	Atypical
Errors	75	5	Atypical

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Academic Strengths

Listening Comprehension & Oral Expression

Wechsler Individual Achievement Test – Fourth Edition (WIAT-IV)

	Standard Score	%ile Rank	Age Equivalent	Grade Equivalent	Descriptive Category
Listening Comprehension	107	68	10 yrs6 mos.	5.0	Average
Receptive Vocabulary	106	66	10 yrs2 mos.	4.8	Average
Oral Discourse Comprehension	107	68	10 yrs10 mos.	5.2	Average
Oral Expression	120	91	14 years	7.9	Very High
Expressive Vocabulary	108	70	10 yrs6 mos.	5.1	Average
Oral Word Fluency	125	95	19 yrs11+ mos.	12.9+	Very High
Sentence Repetition	110	75	11 yrs6 mos.	5.7	High Average
ORAL LANGUAGE	115	84			High Average

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Academic Weakness: Reading

Reading Achievement

BASIC READING SKILLS(W)	82	12			Low Avera
Pseudoword Decoding(W)	90	25	7 yrs6 mos.	2.3	Average
Word Reading(W)	73	4	6 yrs10 mos.	1.3	Very Low
Phonemic Proficiency(W)	90	25	7 yrs6 mos.	2.1	Average
DECODING(W)	80	9			Low Avera
Oral Reading Fluency(W)	46	< 0.1	<6 yrs2 mos.	<1.0	Extremely L
Orthographic Fluency(W)	61	0.5	<6 yrs2 mos.	<1.0	Extremely L
Decoding Fluency(W)	85	16	<8 yrs2 mos.	<3.0	Low Avera
READING FLUENCY(W)	62	0.6			Extremely I
Reading Comprehension(W)	72	3	6 yrs6 mos.	1.2	Very Low
READING(W)	72	3			Very Lov

Academic Wea	knes	ses	Written	Expi	ession		
	Written Expression Skills						
WRITTEN EXPRESSION(W)	76	5			Very Lov		
Spelling(W)	74	4	6 yrs10 mos.	1.2	Very Low		
Sentence Composition(W)	83	13	7 yrs2 mos.	2.1	Low Avera		
Sentence Building(W)	77	6	6 yrs2 mos.	1.1	Very Low		
Sentence Combining(W)	94	34	8 yrs2 mos.	3.1	Average		
Essay Composition(W)	<65	<1	<6 years	<1.0	Extremely L		
WRITING FLUENCY(W)	69	2			Extremely I		
		6	5 yrs10 mos.	K.6	Very Low		
Alphabet Writing Fluency(W)	77						
	67	1	<6 yrs2 mos.	<1.0	Extremely L		



Data driven Recommendations for Intervention

- This is not "Rocket Science"
- Synthetic-phonetic code-emphasis instruction: Reading
 Wilson Reading System
 Orton-Gillingham

- RAVE-O: Reading
 Orthographic processing problems
 Math theoretical vs. direct sequential
 Saxon Math

- Writing
 Diana Hanbury-King
 Assistive technologies

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Some Final Thoughts

- Critical window of language development
- Catching dyslexia early
- Problems with the "wait and see" approach
- Rule of thumb: Remediate and accommodate
- Emotional impacts on kids, parents and teachers
- Hurt pride