

## FROM ASSESSMENT TO ACTION:

### Understanding and Implementing Neuropsychological Reports and Recommendations for Students with Language-Based Learning Disabilities

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## Achieve New England

- Neuropsychological, Psychological, Developmental, and Educational Testing
- Ages 18 months to 26 years old
- Utilize a strengths/weaknesses framework
- Provide diagnostic formulation and “road map”
- Go beyond “above/below/at” grade level



## The Changing Face of Neuropsychology

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### Old Model

- to determine the area of the brain which may have been damaged following injury or neurological illness
- Imaging has largely replaced this function

### New Model

- Testing has moved in the direction of assessing *cognition* and *behavior*
- Integrative approaches now assess cognitive, academic, behavioral, emotional, social, and adaptive domains, as well as contextual circumstances

## Examples of Questions from Parents & Teachers

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"Why is Jacob such a behavior problem?"

"Is Casey making effective academic progress?"

"What factors underlie Aidan's school refusal?"

"John has always been a little quirky... does he have ASD?"

"Why is Leena so lazy?"

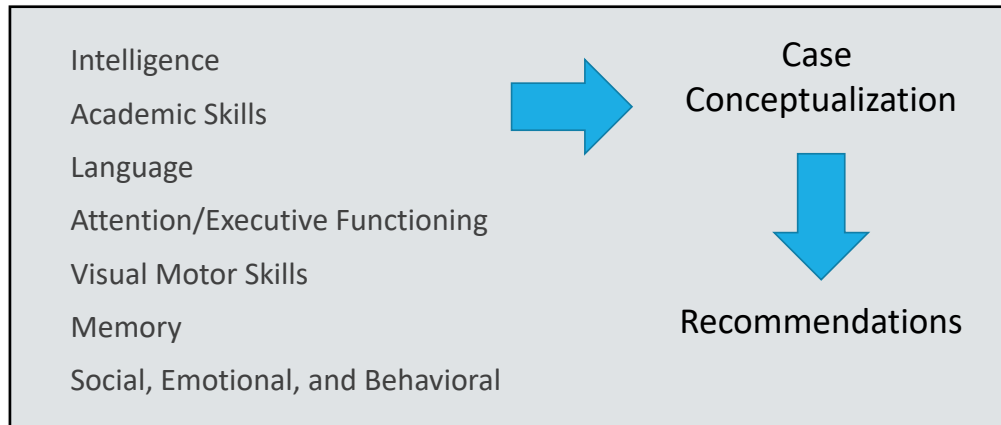
"Does Jeff have a processing problem?"

"Why can't Jessica seem to make social connections?"

"Could Nicole have a learning disability – or is it ADHD?"

"How can we help David's learning?"

## Neuropsychological Assessment

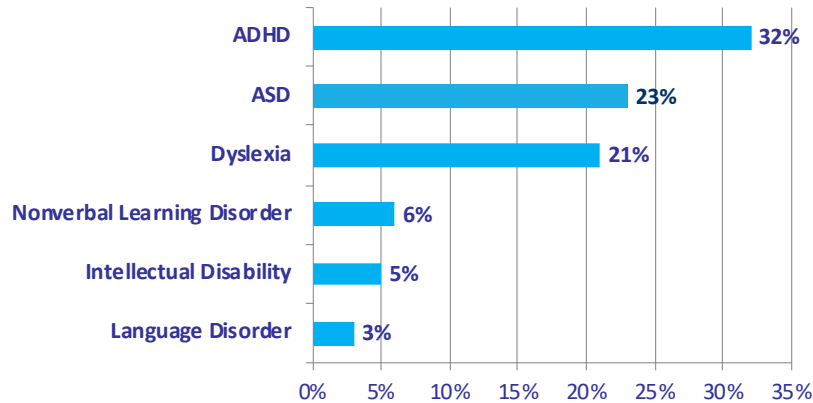


## Neuropsychological Assessment

**Comprehensive assessments help answer questions such as:**

- What are the individual's strengths and weaknesses?
- What kind of progress is being made?
- Are additional emotional or learning challenges interfering with success?
- What supports will be needed to succeed?
- What treatments and supports are needed?

## Youth Presenting for Outpatient Assessment



## Looking Beyond the Diagnosis

Youth with learning challenges often struggle across multiple domains of life

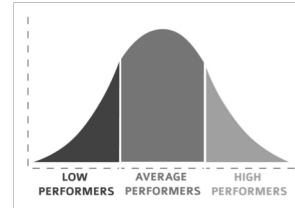
PRIMARY NEUROPSYCH DIAGNOSIS	PERCENT OF PATIENTS WITH CO-OCCURRING CONCERNS IN OTHER DOMAINS				
	Anxiety	Mood	Behavior	Family Stress	Adaptive Skills
Autism Spectrum Disorder	63%	49%	27%	20%	71%
Learning Disorder	48%	41%	23%	17%	66%
ADHD	45%	41%	33%	17%	65%



# Neuropsychological Testing

## The Basics

- Tests are standardized and normed
- Multiple domains are assessed
- Multiple methods are used
- Tests don't diagnose, clinicians do
- Recommendations based on objective data



Standard Score	Scaled Score	T-Score	Percentile	Descriptor
<70	<4	<30	<2 <sup>nd</sup>	Impaired
70-80	4-6	30 – 36	2 <sup>nd</sup> – 9 <sup>th</sup>	Borderline
81-89	7	37 – 43	10 <sup>th</sup> – 24 <sup>th</sup>	Low Average
90-110	8-12	44 – 56	25 <sup>th</sup> – 75 <sup>th</sup>	Average
111-119	13-14	57 – 63	76 <sup>th</sup> – 90 <sup>th</sup>	High Average
120-129	15	64 – 69	91 <sup>st</sup> – 97 <sup>th</sup>	Superior
>129	>16	>69	>97 <sup>th</sup>	Very Superior

## A Typical Assessment Battery

- **Tests of Cognitive Ability and Social Skills**
  - Intelligence (WISC-IV, WAIS-IV)
  - Attention & Executive Functioning (CPT-II, D-KEFS, Wisconsin)
  - Language & Related Functions (EVT-2, PPVT-4, CTOPP)
  - Memory (CVLT-C, WRAML2)
  - Visual-Motor (VMI, Grooved Pegboard)
  - Social functioning (Test of Problem Solving, ADOS-2)
- **Tests of Academic Achievement**
  - WIAT-III, Woodcock-Johnson Tests of Achievement-III
- **Parent & Teacher Questionnaires**
  - Emotional & Behavioral (CBCL, BRIEF, BASC-2)
  - Social (Social Responsiveness Scale)
  - Adaptive (ABAS-II)
- **In some cases, school observations or consultation**

# Key Neuropsychological Domains

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INTELLIGENCE – ATTENTION – EXECUTIVE FUNCTIONING –  
LEARNING & MEMORY – LANGUAGE – SPATIAL ABILITIES –  
MOTOR SKILLS – EMOTIONAL – SOCIAL – ADAPTIVE SKILLS

## Intelligence

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## Intelligence

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“Intelligence is the aggregate or global capacity of the individual to **act purposefully**, **think rationally**, and **deal effectively** with his environment.”

-David Wechsler, 1944

## Intelligence

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**Intelligence:** the ability to acquire and apply knowledge and skill

Critical to understanding a student's *potential*

Common Intelligence Tests:

- Wechsler Intelligence Scales (WPPSI-IV, WISC-V, WAIS-IV, WASI-IV)
- Differential Ability Scales, Second Edition (DAS-II)
- Stanford-Binet Intelligence Test, Fifth Edition (SB-5)
- Kaufman Assessment Battery for Children, Second Edition (KABC-II)

Assess: Verbal, Nonverbal, Spatial, Working Memory, Processing Speed

# Intelligence

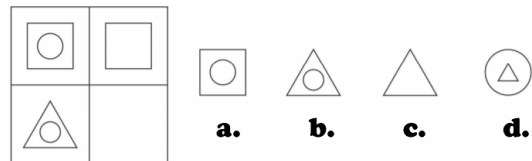
## Intellectual Potential (IQ)

### Verbal Intellect

*In what way are a window and a telescope alike?*

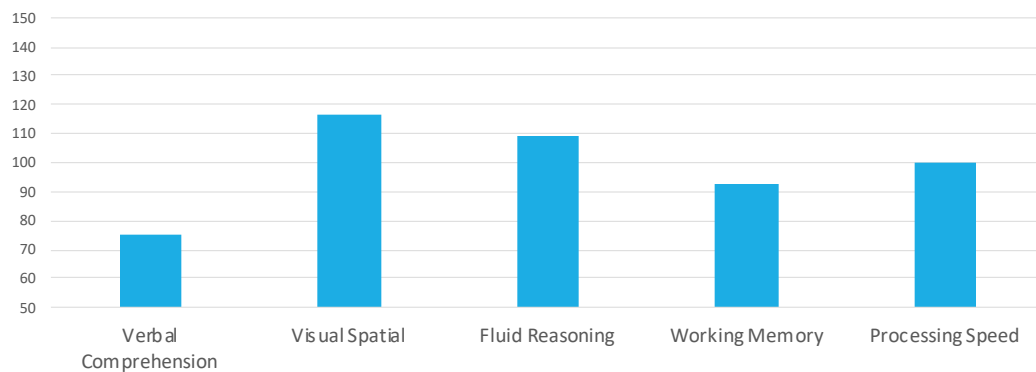
### Nonverbal Intellect

Fill in the missing box.

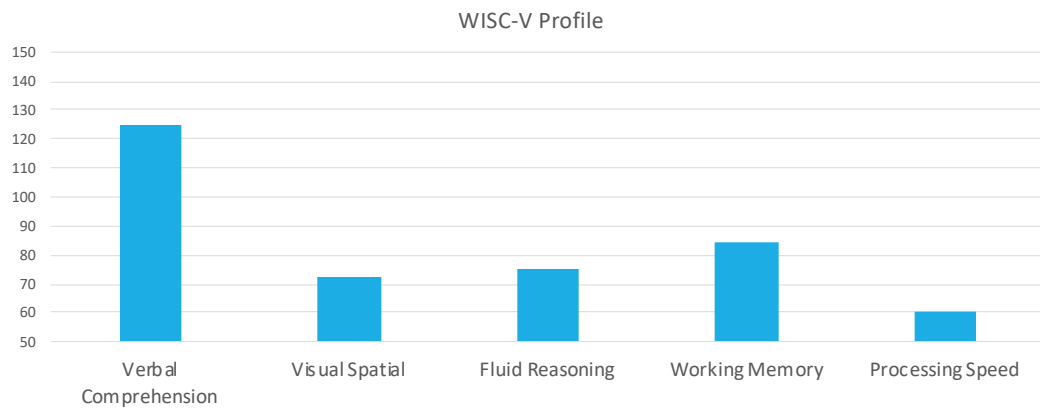


# Intelligence

WISC-V Profile



## Intelligence



## Attention

## Attention

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**Attention:** cognitive process of selectively concentrating on a discrete aspect of information, while ignoring other perceivable information

Sustained visual and auditory attention

Common Tests of Attention:

- Conners Continuous Performance Test, Third Edition (CPT-3)
- Test of Everyday Attention for Children (TEA-Ch)
- Conners Continuous Auditory Test of Attention (CATA)

## Attention

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## Attention

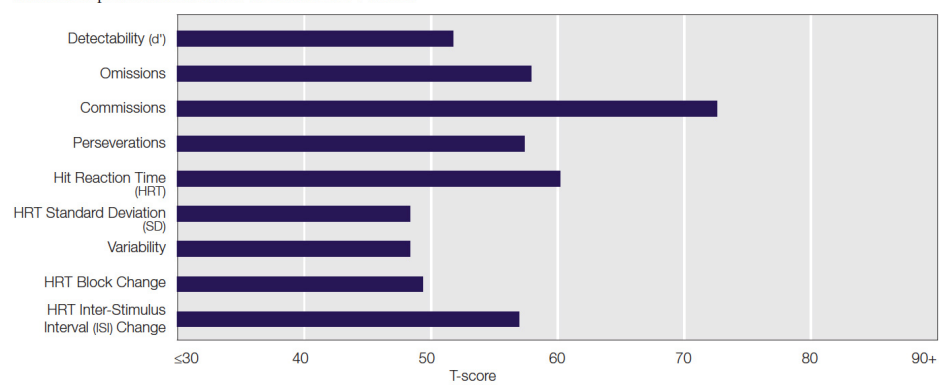
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X

## Attention

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This section provides an overview of Grant's CPT 3 scores.

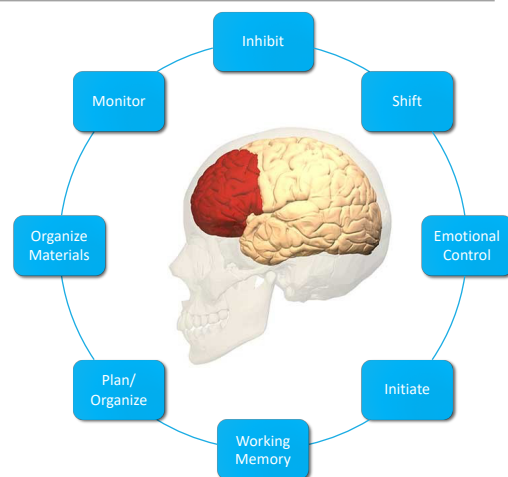


# Executive Functioning

## Executive Functioning

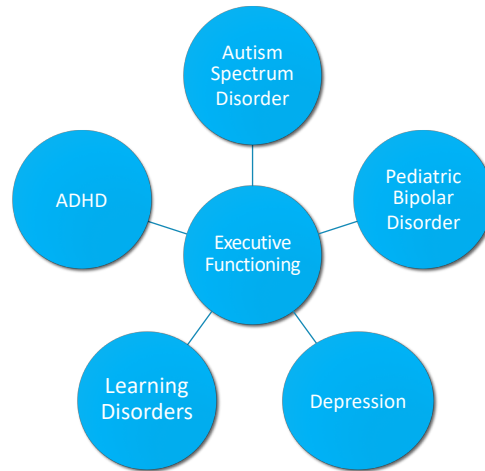
**Executive Functioning:**  
mental processes that  
enable us to plan, focus  
attention, remember, and  
juggle multiple tasks

Executive Functions involve  
control over thinking and  
include tasks such as:





## Executive Functioning Impairments Across Multiple Childhood Disorders



## Executive Functioning Skills Defined

**Preschool:** tidy playroom, perform simple self-help tasks

**K to 2<sup>nd</sup> grade:** bring papers to and from school, follow safety rules

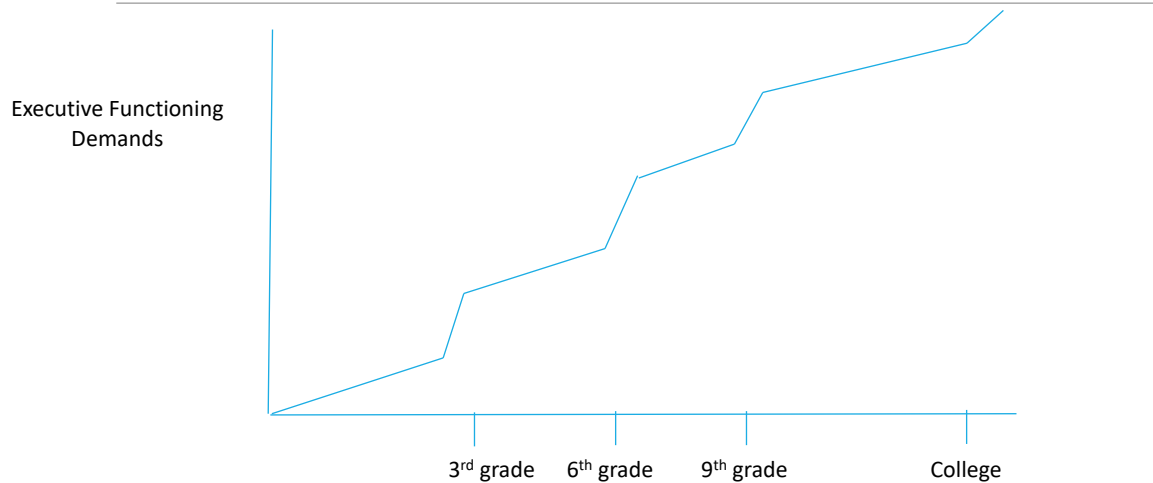
**3<sup>rd</sup> grade to 5<sup>th</sup> grade:** complete homework, track of daily activities

**6<sup>th</sup> grade to 8<sup>th</sup> grade:** plan for big projects, use organization system

**9<sup>th</sup> grade to 12<sup>th</sup> grade:** study for finals/SATs, large group projects

**College:** manage multiple classes, little professor oversight

## “Highs & Lows” of Executive Functioning Demands (in Massachusetts)



## Academic Impact of Executive Functioning Weaknesses

### Inhibiting

- Starts an activity before waiting for instructions
- Trouble standing still in lines
- Interrupting
- Silliness and “clowning around”

### Shifting

- Difficult stopping an activity and moving to the next
- Trouble tolerating a substitute or schedule change
- Becomes “stuck” on a particular line of thinking

## Academic Impact of Executive Functioning Weaknesses

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### **Emotional Control**

- Frequent outbursts
- Excessively upset over small changes in classroom routine

### **Initiating**

- Difficulty knowing how/where to start on a project
- Trouble coming up with ideas (e.g., "What should I write about?")

### **Working Memory**

- Problems following activities with more than one step
- Losing track of what they're doing in assignments

## Academic Impact of Executive Functioning Weaknesses

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### **Planning and Organization**

- Waiting until the last minute to start a project
- Underestimating time needed to study
- Getting caught up in details and missing the big picture

### **Organization of Materials**

- Trouble keeping track of belongings
- Messy desk and schoolbag

### **Self Monitoring**

- Difficulty noticing careless errors
- Trouble reflecting on what works and does not work

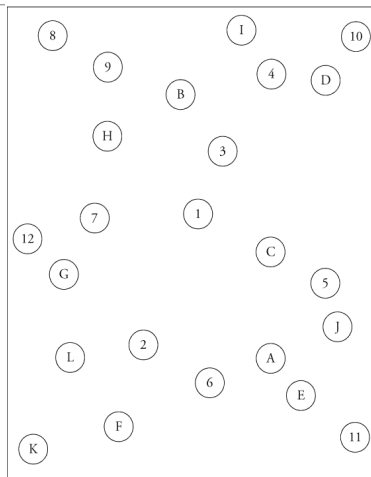
## Executive Functioning

### *Inhibition: The Stroop Test*

**PURPLE** **YELLOW** **RED**  
**BLACK** **RED** **GREEN**  
**RED** **YELLOW** **ORANGE**  
**BLUE** **PURPLE** **BLACK**  
**RED** **GREEN** **ORANGE**

## Executive Functioning

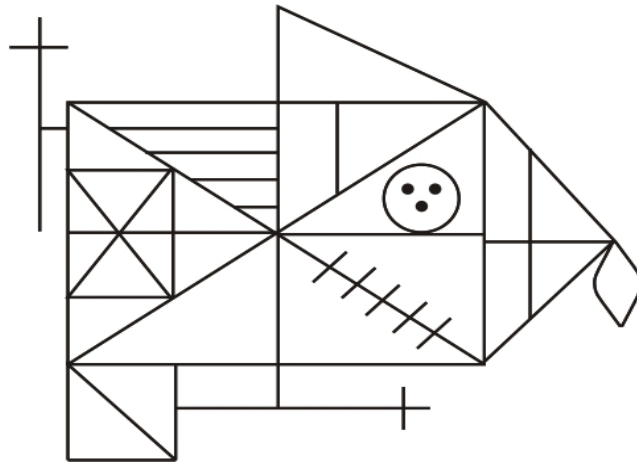
### *Set Shifting: The Trail Making Test*



## Executive Functioning

### *Organization & Planning: Rey Complex Figure Test*

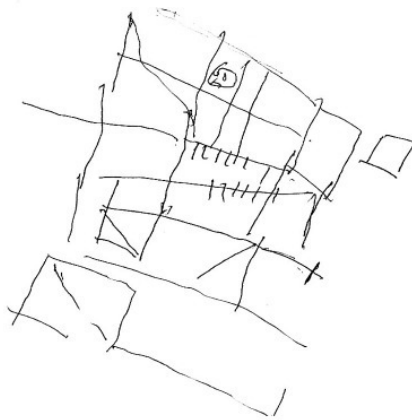
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## Executive Functioning

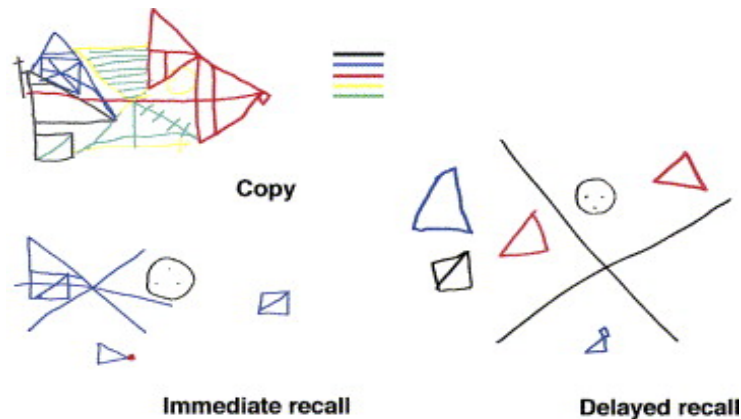
### *Organization & Planning: Rey Complex Figure Test*

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## Executive Functioning

### *Organization & Planning: Rey Complex Figure Test*



## Executive Functioning

### *Retrieval and Fluency: Verbal Fluency Test*

In one minute...

- name as many foods as you can
- name as many words as you can that start with the letter k

# Memory & Learning

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## MEMORY & LEARNING

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**Memory:** faculty of the mind by which information is encoded, stored, and retrieved

Aspects of Memory:

- Visual versus Verbal
- Recognition vs Recall
- Encoding, Storage, and Retrieval

Common Tests of Memory:

- Wide Range Assessment of Memory and Learning (WRAML-2)
- California Verbal Learning Test, Children's Version (CVLT-C)
- Children's Memory Scale (CMS)

## MEMORY & LEARNING

REY AUDITORY VERBAL LEARNING TEST (RAVLT) <i>Phase I</i>												
Patient: _____												
Age: _____												
LIST A	1	2	3	4	5	LIST B	1	LIST A	6	7		
DRUM						DESK		DRUM				
CURTAIN						RANGER		CURTAIN				
BELL						BIRD		BELL				
COFFEE						SHOE		COFFEE				
SCHOOL						STOVE		SCHOOL				
PARENT						MOUNTAIN		PARENT				
MOON						GLASSES		MOON				
GARDEN						TOWEL		GARDEN				
HAT						CLOUD		HAT				
FARMER						BOAT		FARMER				
NOSE						LAMB		NOSE				
TURKEY						GUN		TURKEY				
COLOR						PENCIL		COLOR				
HOUSE						CHURCH		HOUSE				
RIVER						FISH		RIVER				
<b>SCORE</b>												

Figure 3 - Rey Auditory Verbal Learning Test (RAVLT)

## Language & Related Functions



# LANGUAGE & RELATED FUNCTIONS

**Language:** ability to acquire and use complex systems of communication

Aspects of Language:

- Phonics, Vocabulary, Grammar/Syntax, Sentence Structure, Pragmatics

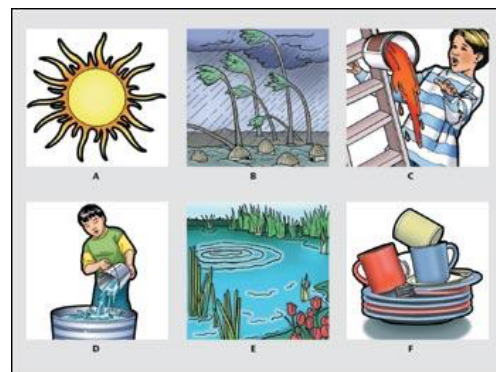
Common Tests of Language:

- Clinical Evaluation of Language Fundamentals (CELF-5)
- Peabody Picture Vocabulary Test (PPVT-4)
- Expressive Vocabulary Test (EVT-2)
- Comprehensive Test of Phonological Processing (CTOPP-2)
- Test of Pragmatic Language (TOPL-2)

## Language and Related Functions *Receptive and Expressive Vocabulary*

**Receptive:**  
Point to the one  
that shows...  
**SPILL**

**Expressive**  
Name the word  
that goes with  
each picture.



## Dyslexia Explained

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## What's Dyslexia Again?

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Phonics: Dyslexia's Core Deficit

Read this word:

CLAT

## What's Dyslexia Again?

---

Phonics: Dyslexia's Core Deficit

Read this word:

CLATE

## What's Dyslexia Again?

---

Phonics: Dyslexia's Core Deficit

Read this word:

CLATEE

## What's Dyslexia Again?

---

Phonics: Dyslexia's Core Deficit

Write this word:

## What's Dyslexia Again?

---

Phonics: Dyslexia's Core Deficit

Write this word:

PLID

## What's Dyslexia Again?

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**Dyslexia:**

**“So, what’s it like to be dyslexic?”**

[Simulation Exercise \(Understood.org\)](http://Understood.org)

## Language and Related Functions

*Phonological Awareness*

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Tell me a word that rhymes with **battle**.

Say **pixel**. Now say it again, but don't say **/s/**

What is the third sound in the word “**strip**”?

## Language and Related Functions

### *Symbolic Naming and Rapid Retrieval (Rapid Naming)*

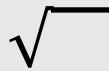
Name these letters as quickly as you can.

Y Z Q R J P N

Name these animals as quickly as you can.



Quickly the mathematical value, procedure, or concept associated each symbol.



## Perceptual & Motor Processing

# Perceptual and Motor Processing

**Involves the processing of visual, spatial, & motor information (often simultaneously)**

Aspects of Perceptual and Motor Processing:

- Visual and spatial perception
- Integration or manipulation of visual-spatial information
- Fine motor precision and speed
- Integration of visual and motor information

Common Tests of Spatial and Motor Abilities:

- Grooved Pegboard Test
- Wide Range Assessment of Visual Motor Abilities (WRAVMA)
- Visual-Motor Integration Test

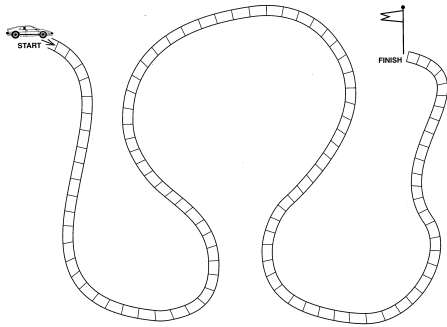
## Perceptual and Motor Processing *Fine Motor Precision & Speed*



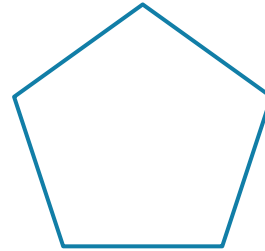
## Perceptual and Motor Processing

### *Visual-Motor Integration*

Trace this line as quickly as possible



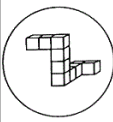
Copy this shape.



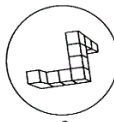
## Perceptual and Motor Processing

### *More complex Visual Spatial Processing*

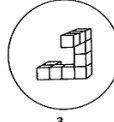
Which of the shapes below  
is a rotated version of the  
exact shape above shape?



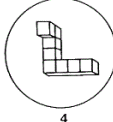
1



2



3



4



# Academic Achievement

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## Academic Achievement

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**Academic Testing: assessment of reading, math, spelling, and writing**

Common Academic Tests:

- Wechsler Individual Achievement Test, Third Edition (WIAT-III)
- Woodcock-Johnson Tests of Achievement, Fourth Edition (WJ-IV)
- Gray Oral Reading Test, Fifth Edition (GORT-5)

## Academic Achievement

Is the student achieving at his/her *potential*?

An Example: Two 12-year-old boys

JEFFREY WISC-IV	Standard	Percentile
Verbal Comprehension	98	45 <sup>th</sup>
Perceptual Reasoning	100	50 <sup>th</sup>
Working Memory	94	34 <sup>th</sup>
Processing Speed	103	58 <sup>th</sup>
Full Scale IQ	99	47 <sup>th</sup>

FRANK WISC-IV	Standard	Percentile
Verbal Comprehension	89	23 <sup>rd</sup>
Perceptual Reasoning	112	79 <sup>th</sup>
Working Memory	88	21 <sup>st</sup>
Processing Speed	100	50 <sup>th</sup>
Full Scale IQ	91	27 <sup>th</sup>

## Academic Achievement

Is the student achieving at his/her *potential*?

IQ and Achievement

“Reading achievement...is substantially below that expected given the person’s chronological age, measured intelligence, and age-appropriate education.”

Simple Difference	Predicted Difference
1 to 1 ½ Standard (14 or 22 points)	Based on statistical analyses of co-normed measures

# Academic Achievement

Assessment of achievement is *multi-dimensional*

## Examples of Reading Competency

Competency Domain	
Single-Word Reading	warm, almost ocean, people
Decoding & Word Attack	mip huffle hufle
(Phonological Processing)	Say "groaning" without saying "n"
Oral Reading Fluency	The dogsled race was about to begin. Julie's team of dogs was lined up at the starting gate. Julie stood behind them. The air was so cold that she could see her breath. Other teams were lined up, too, and the dogs were excited.
Silent Reading Rate	
Reading Comprehension	

# Academic Achievement

Is the student reading *at grade level*?

## The Controversy of Grade Equivalents

Tanya, age 12, Seventh grade

WIAT-III	Standard	Percentile	Grade Equivalent
Word Reading	76	5 <sup>th</sup>	2:7
Oral Reading Fluency	85	16 <sup>th</sup>	4:8
Reading Rate	96	39 <sup>th</sup>	5:8
Reading Accuracy	74	4 <sup>th</sup>	2:5
Reading Comprehension	82	12 <sup>th</sup>	2:3

Grade equivalents tell you the grade level at which the score obtained is an *average* one.

The number of words that Tanya read correctly is the average number of words read by students in the seventh month of second grade.

# Academic Achievement

Is the student reading *at grade level*?

## The Controversy of Grade Equivalents

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Reading Accuracy	74	4 <sup>th</sup>	2:5
Reading Comprehension	82	12 <sup>th</sup>	2:3

ball  
jump  
turn  
ready  
penguin  
tomato  
respite  
charity  
fortitude  
parsimonious

# Academic Achievement

Is the student reading *at grade level*?

## The Controversy of Grade Equivalents

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Reading Accuracy	74	4 <sup>th</sup>	2:5
Reading Comprehension	82	12 <sup>th</sup>	2:3

### We CAN say:

- ✓ Her overall score is typical of a second grader
- ✓ She performed worse than 93% of 7<sup>th</sup> graders

### We CANNOT say:

- ✗ Her word reading is "at the second grade level"
- ✗ She is 5 years below grade-level

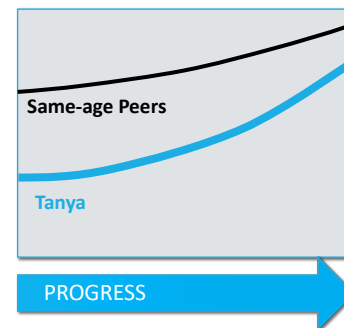
# Academic Achievement

Do comparisons over time show *meaningful progress*?

## A Few Possible Scenarios

### Effective Progress

WIAT-III	Raw Score	Standard Score	Percentile	Grade Equivalent
Word Reading Baseline	32	76	5 <sup>th</sup>	2:7
Word Reading 1-year Follow-up	55	86	18 <sup>th</sup>	5:8



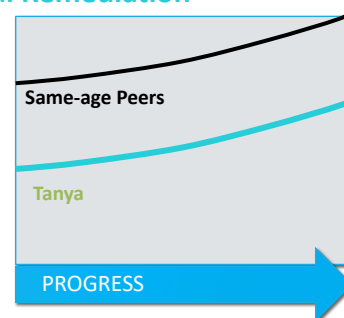
# Academic Achievement

Do comparisons over time show *meaningful progress*?

## A Few Possible Scenarios

### Some Progress but no Meaningful Remediation

WIAT-III	Raw Score	Standard Score	Percentile	Grade Equivalent
Word Reading Baseline	32	76	5 <sup>th</sup>	2:7
Word Reading 1-year Follow-up	43	78	7 <sup>th</sup>	4:5



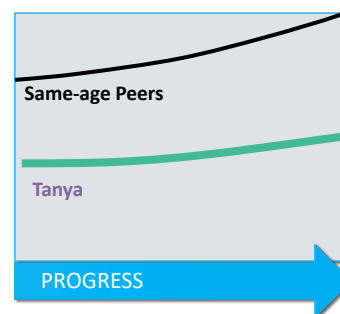
## Academic Achievement

Do comparisons over time show *meaningful progress*?

### A Few Possible Scenarios

#### Lack of Progress (falling further behind)

WIAT-III	Raw Score	Standard Score	Percentile	Grade Equivalent
Word Reading Baseline	32	76	5 <sup>th</sup>	2:7
Word Reading 1-year Follow-up	35	71	3 <sup>rd</sup>	3:2



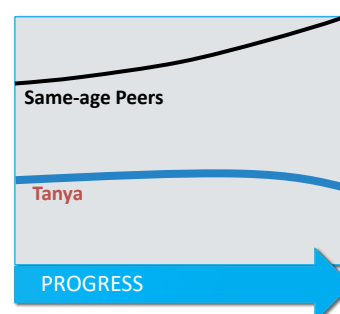
## Academic Achievement

Do comparisons over time show *meaningful progress*?

### A Few Possible Scenarios

#### Regression in Skills

WIAT-III	Raw Score	Standard Score	Percentile	Grade Equivalent
Word Reading Baseline	32	76	5 <sup>th</sup>	2:7
Word Reading 1-year Follow-up	28	67	1 <sup>st</sup>	2:2



# Emotional and Behavioral Adjustment

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## Psychological Testing

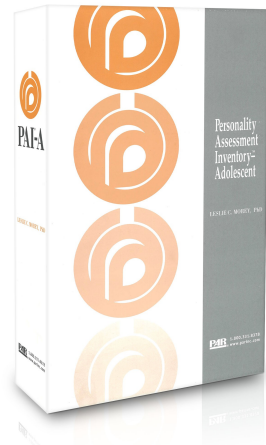
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Assessment of emotional, social, personality, and behavioral aspects of a child's functioning

Various methods of assessment:

- Clinical Interview (Parent/Child)
- Self-Report Questionnaires
  - e.g., Personality Assessment Inventory, Adolescent Version (PAI-A)
- Standardized Rating Scales (Parent/Teacher)
  - e.g., Behavior Assessment System for Children, Third Edition (BASC-3)
- Projective Assessment
  - e.g., Thematic Apperception Test (TAT)

## Psychological Testing



## Psychological Testing





## Psychological Testing

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## Social Skills

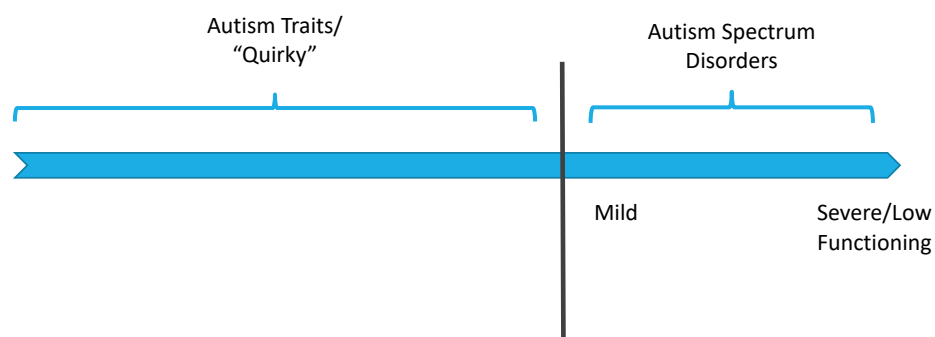
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## Assessment of Social Skills

- Autism Diagnostic Observation Schedule, Second Edition (ADOS-2)
  - Social affect and restricted/repetitive behaviors
  - Series of planned social occasions which place “presses” on a child’s socialization skills
  - Ages 12 mos. To 99 years old
- Extensive training in administration and scoring procedures
- Autism/ASD cut-offs and symptom severity level



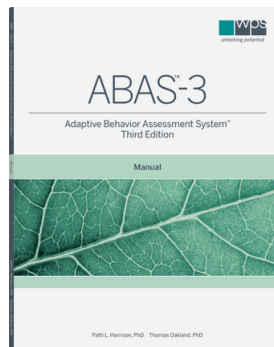
## The Autism “Spectrum”



# Adaptive Daily Living Skills

## Assessment of Adaptive Living Skills

- Adaptive Living Skills
  - Conceptual (e.g., communication, functional academics)
  - Socialization (e.g., leisure time)
  - Practical (e.g., self-care)



Texas Functional  
**TEFIS**  
 Living Scale  
**Ecologically Valid  
 Measures of  
 Daily Living**

800.627.7271 | PsychCorp.com

PEARSON

## Pulling It All Together

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Comprehensive Neuropsychological Report

Feedback with family members

School consultation

Follow-up

## Supporting Students with Learning Differences

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## Supporting Students with Learning Differences

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### The three A's of Supporting Students with Learning Differences

- Accept & Understand
- Accommodate
- Assist with Skill Development

## Supporting Students with Learning Differences

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Living with a Learning Disability:



## Supporting Students with Learning Differences

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### **Accept and Understand**

- Assist teachers in developing an strong understanding of learning disabilities
- Analogies/metaphors can be helpful
  - Flashlight for attention
  - Good driving skills for executive functions
  - PC versus Mac for dyslexia
- Communicate with parents
  - Many parents are confused about their child's learning differences
  - Parent-teacher communication systems are critical
  - Consistency, routine, and immediate feedback are key

## Supporting Students with Learning Differences

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### **Accommodate**

- Allow extra time on tests
- Break down tasks into manageable components
- Provide study outlines prior to exams
- Allow "second chances" to earn back points on missed assignments or when careless errors are evident
- Reduce busy work and overall homework load when possible
- Reduce sources of distraction in the classroom or during testing

## Supporting Students with Learning Differences

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### **Assist with Skill Development**

- Learning center or academic support lab
- Explicit instruction and support
  - “Time it takes” list
  - Technological tools (30/30, schoology, calendars, reminders)
  - Structures of language (cause/effect, compare/contrast, problem/solutions)
  - Structured Literacy (fact sheet available at [www.dyslexiaida.org](http://www.dyslexiaida.org))

## Why Do Learning Interventions Fail?

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- Intervention strategies are not linked to external rewards
- Despite support, demands continue to outweigh student capabilities
- Expectations that students will be advocates for themselves
- Inconsistent implementation
- Lack of thorough assessment and screening



## Dyslexia Screening Legislation

### Federal

- In September 2016, the U.S. Senate passed Resolution 576 which...  
*"...designates October 2016 as National Dyslexia Awareness Month, and calls on Congress, schools, and educational agencies to recognize that dyslexia has significant educational implications that must be addressed."*

### State

- In October 2019, the MA State Legislature approved Chapter 272 of the Acts of 2018. The new law requires the Department of Elementary and Secondary Education (DESE), in consultation with the Department of Early Education and Care (EEC) to  
*"...issue guidelines to assist districts in developing screening procedures or protocols for students that demonstrate one or more potential indicators of a neurological learning disability, including, but not limited to, dyslexia."*



## From Assessment to Action:

A FRAMEWORK FOR INTERPRETATION

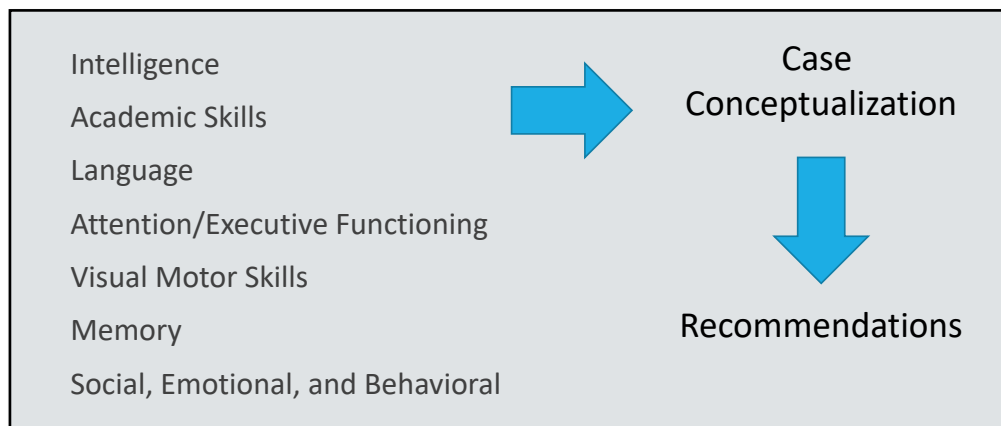


## Meet Joseph (age 13, 8<sup>th</sup> grade)

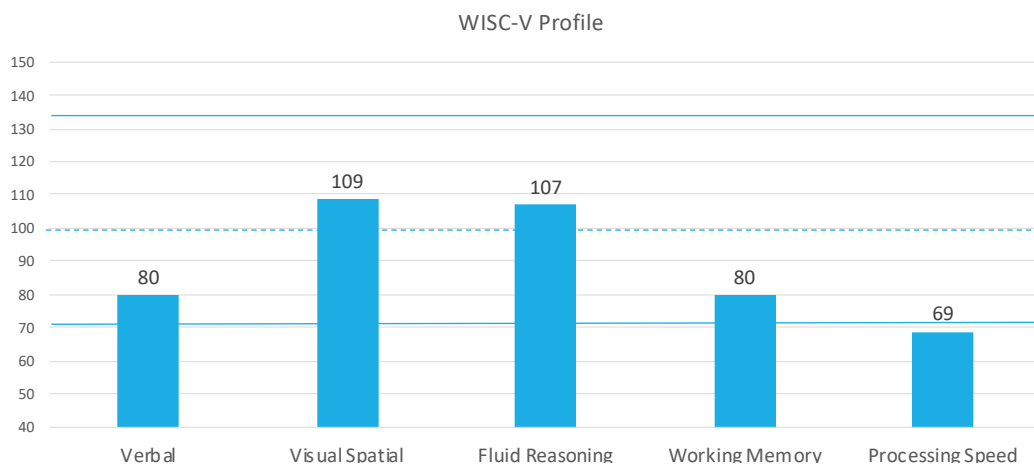
**Mom:** “I just don’t know what’s up with Joseph. He is a great kid, but he has struggled in school since the very beginning. He was slow to walk, slow to talk, slow to learn his letters and numbers. Frankly, he’s always been a step behind. First grade and second grade were tough, but he had great teachers and we worked a lot with him at home – so he made it through. Since starting middle school, he’s really floundered. His reading and spelling aren’t up to grade level – and math is even worse. I am not even sure if he even really knows how to add and subtract at this point. And homework time is the worst. It takes him twice as long to get things done, he never knows where to start, and he seems lost and scattered. He’d rather play Minecraft than get his work done. His dad thinks it is just laziness and I’m not even sure what’s going on. Maybe it is a learning issue – maybe motivation – maybe some combination of both? His teachers thought testing might be helpful, so that’s why we are here.”

### Hypotheses?

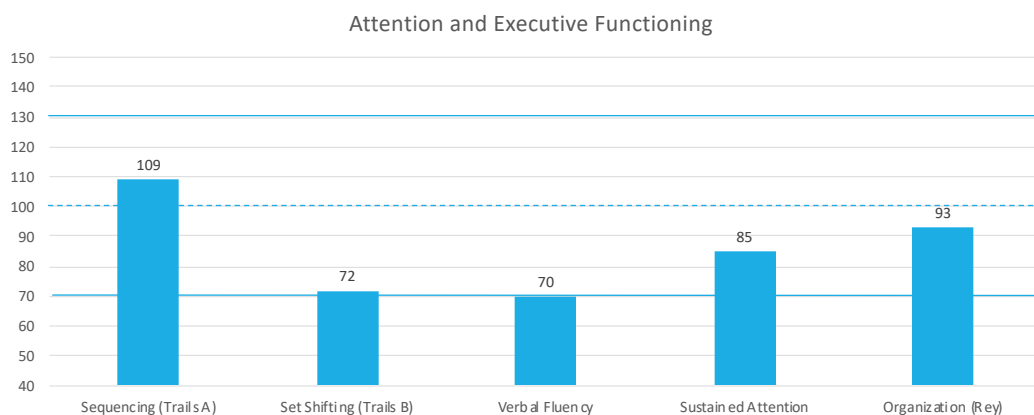
## Neuropsychological Assessment



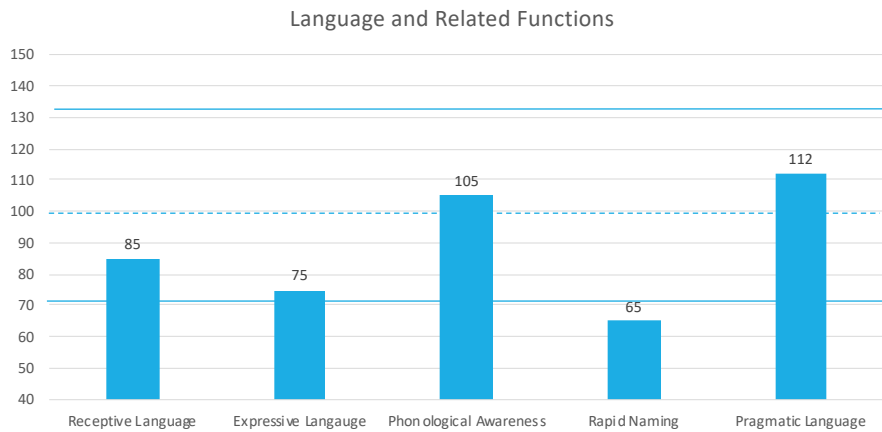
## Joseph's Intellectual Testing



## Joseph's Attention/Exec. Function Tests

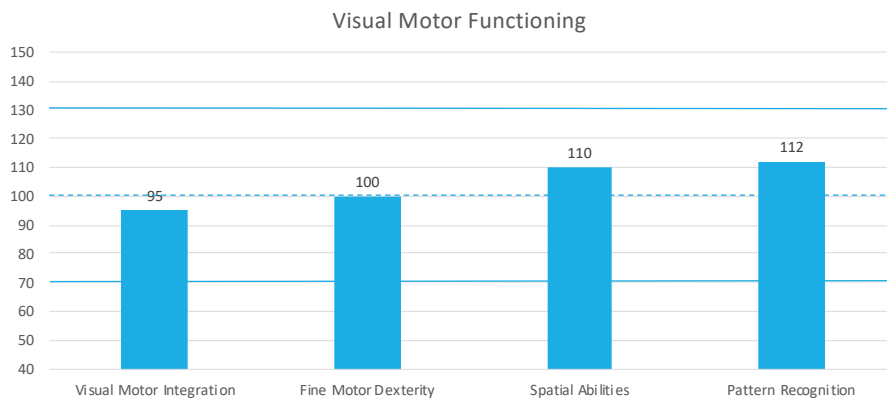


## Joseph's Language Test Findings



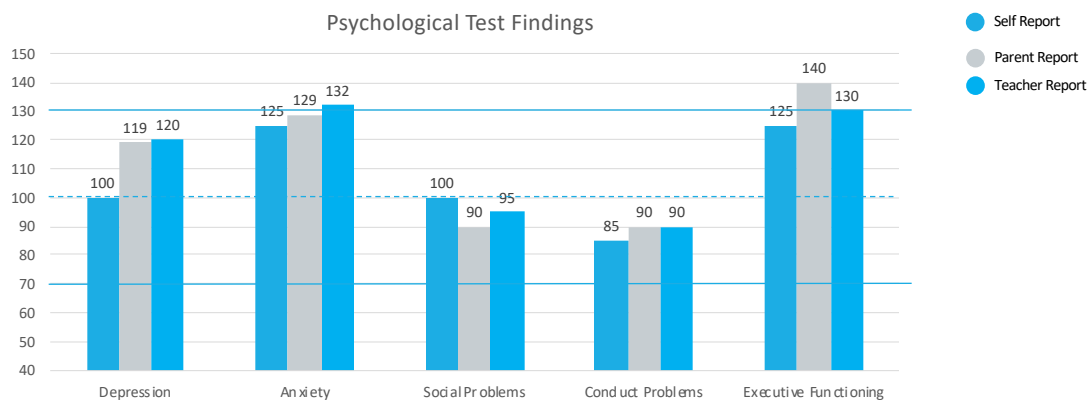
Note:  
Does Joseph  
have Dyslexia?

## Joseph's Perceptual and Motor Abilities

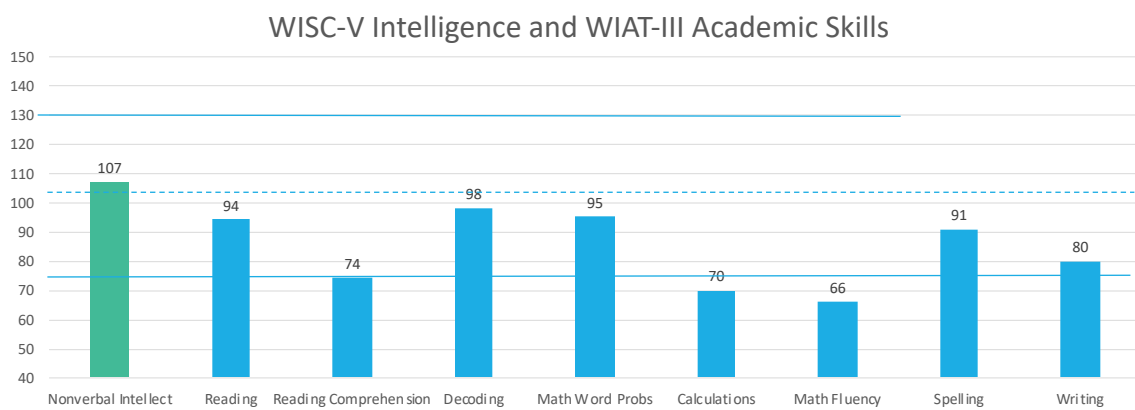


Note:  
Joseph's math  
problems are  
not a Nonverbal  
Learning  
Disability (NLD)

## Joseph's Psychological Test Findings



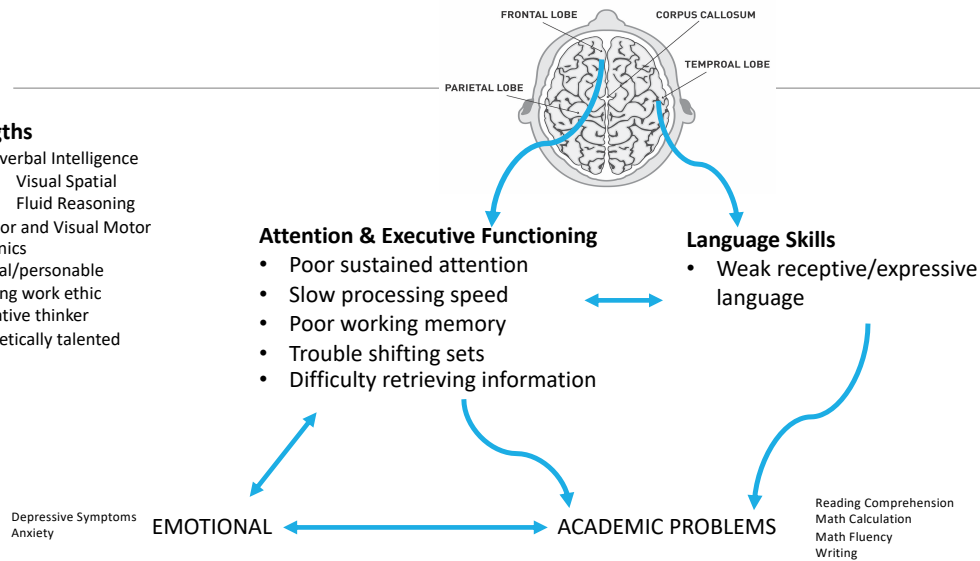
## Joseph's Academic Test Results



# Joseph: Case Conceptualization

## Strengths

- Nonverbal Intelligence
  - Visual Spatial
  - Fluid Reasoning
- Motor and Visual Motor
- Phonics
- Social/personable
- Strong work ethic
- Creative thinker
- Athletically talented



Thank you so much for your time!

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