

Presentation Outline

Introduction

Using groups to stimulate thinking
How traditional IQ has influenced us
A new way of thinking about intelligence
PASS theory defines basic psychological processes
Each PASS ability, case studies and interventions
How to measure PASS neurocognitive processes
Final thoughts

3



Core Groups → Deeper Learning

> Groups of 3-5, First task decide who will be

• Coach – Help the group address the topic

• Organizer – Keep the group on task

• Recorder – Keep notes on the conversation

• Energizer – Focus the group!

5

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Think Partners → Deeper Learning

- Find a small group of 2-3 people
 - · First introduce yourself
 - Tell something interesting about yourself
 - Why this session?
 - · Your thoughts...



10

Traditional IQ and Achievement Tests

▶1975 Charles Champagne Elementary, Bethpage, NY

- Typical assessment
- Draw A Person Bender-Gestalt
- WISC
- Peabody Individual Achievement Test
- Sentence Completion Test
- Developmental history
- other measures as needed



Traditional IQ and Achievement Tests

- ➤When I conducted my comprehensive evaluations, I noticed that parts of the WISC were VERY similar to parts of the achievement test I was giving
 - In fact the Peabody Individual Achievement Test (1970) had a General Information and Arithmetic subtests JUST LIKE THE WISC!
- ➤ That is still true today...

My Background

➤ Interest in intelligence and instruction

Experiences as a school Psychologist

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Thinking vs Knowing

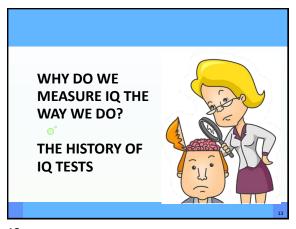
We should NOT measure intelligence with tests that demand knowledge!

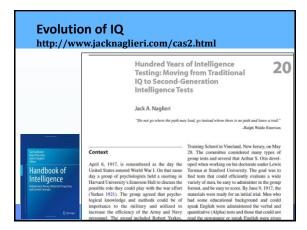
- Scales on IQ tests that are confounded by knowledge
 - WISC-V
 - · Verbal Comprehension: Vocabulary, Similarities, Information & Comprehension
 - · Fluid Reasoning: Figure Weights, Picture Concepts, Arithmetic

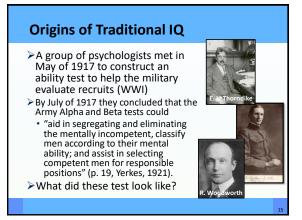
 - Comprehension Knowledge: Vocabulary & General Information
 - · Fluid Reasoning: Number Series & Concept Formation
 - · Auditory Processing: Phonological Processing

Cognition or Knowledge? I know ➤ What does the student have to **know** to complete a task? • This is dependent on instruction How does the student have to think to complete a task? I need a • This is dependent on the brain -'basic psychological processes' We must assess ability and achievement separately

11 12







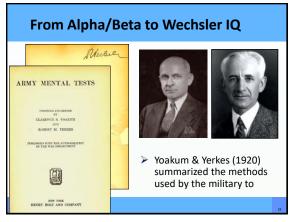
From Alpha/Beta to Wechsler IQ Army Alpha Army Beta Maze Synonym- Antonym Cube Imitation Disarranged Sentences Cube Construction Number Series Arithmetic Problems Digit Symbol Analogies Pictorial Completion Information Geometrical Construction Verbal & Nonverbal Quantitative

15 16

The First IQ TEST: Alpha (Verbal) tobacco 1. Bull Durham is the name of fruit 2. The Mackintosh Red is a kind of typewriter 3. The Oliver is a Mogul 4. A passenger locomotive type is the engineers 5. Stone & Webster are well know Superbas 6. The Brooklyn Nationals are called fabric 7. Pongee is a 8. Country Gentleman is a kind of 9. The President during the Spanish War was Mckinley cigarette 10. Fatima is a make of From: Psychological Examining the United States Army (Yerkes, 1921, p. 213)

The First IQ Test: Beta (Nonverbal) METHODS AND RESULTS Men who fail in alpha are sent to beta in order that injustice. Why Beta? by reason of relative unfamiliarity with English may be avoided. Men who fail in beta are referred for individual examination by means of what may appear to be the most suitable and altogether appropriate procedure among the varied methods available. This reference for careful individual examination is yet another attempt to avoid injustice either by reason of linguistic handicap or accidents incident to group examining. > There is no mention of measuring verbal and nonverbal intelligences Verbal tests posed a social justice issue

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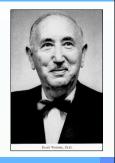


Wechsler's Definition

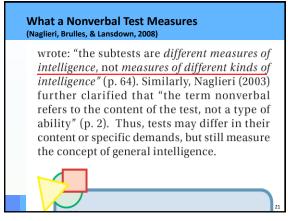
Definition of intelligence does not mention verbal or nonverbal abilities:

"The aggregate or global capacity of the individual to act purposefully, to think rationally, and to deal effectively with his environment (1939)"

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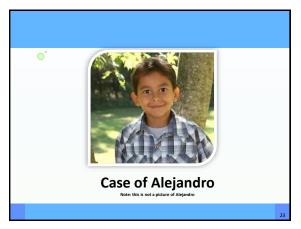
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Myth of Verbal IQ - Conclusions

- The lack of a clear distinction between ability and achievement tests has corrupted the very concept of "verbal ability"
- A child who does not have an adequately enriched educational experience (ELL, SLD, etc.) will be at disadvantage when assessed with so-called Verbal and Quantitative reasoning "ability" tests
- ➤ SOLUTION ? **Re**invent intelligence

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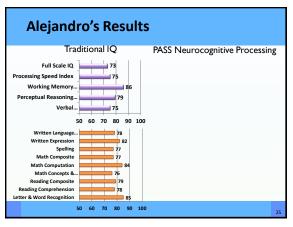


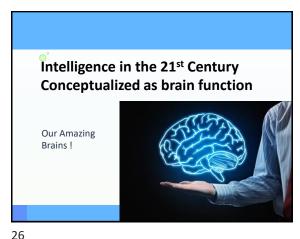
CASE STUDY: ALEJANDRO (C.A. 7-0 GRADE 1)

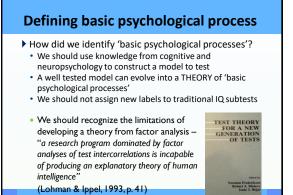
REASON FOR REFERRAL

- >Academic:
 - · Could not identify letters/sounds
 - October 2013: Could only count to 39
 - All ACCESS scores of 1
- ▶ Behavior:
 - · Difficulty following directions
 - · Attention concerns
 - · Refusal/defiance









Defining basic psychological process

- The term 'basic psychological processes' is a modern term for ability (or intelligence)
- → 'basic psychological processes' provide us the means to function and acquire knowledge and skills which are measured separtely
 - ▶ Tasks like reading decoding, phonological skills, or math calculation, are not examples of a cognitive process

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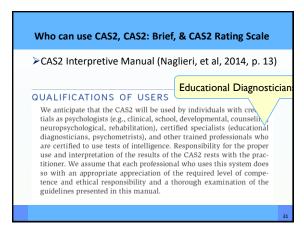
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PASS Neurocognitive Theory

- ► Planning = THINKING ABOUT HOW YOU DO WHAT YOU DECIDE TO DO
- ► Attention = BEING ALERT AND RESISTING DISTRACTIONS
- ➤ Simultaneous = GETTING THE BIG PICTURE
- ➤ Successive = FOLLOWING A SEQUENCE
- ➤ PASS theory is a way to measure neurocognitive abilities related to brain function

PASS Comprehensive System (Naglieri, Das, & Goldstein, 2014; Naglieri, Moreno & Otero (2017) **CAS2 Spanish CAS2 Rating** CAS2 Extended CAS2 Brief CAS2 Core (12 & 8 (12 subtests) (4 subtests) subtests) Full Scale Total Score Total Score Full Scale **Planning** Planning Planning Planning Simultaneous Simultaneous Simultaneous Simultaneous Attention **Attention** Attention Attention Successive Successive Successive Supplemental Executive Function Working Memory Verbal / Nonverbal Visual-Auditory Speed/Fluency

29 30



The Case of Alejandro

Putting everything in perspective

31 32

Alejandro's Results Traditional IQ PASS Neurocognitive Processing Full Scale IQ 73 CAS₂ Processing Speed Index **7**5 Working Memory.. Full Scale 83 Perceptual Reasoning... **1**79 Verbal... **175** Successive 50 60 70 80 90 100 Simultaneous 96 **=** 78 Written Language... Written Expression Spelling **77** Attention 67 Math Composite Math Computation Math Concepts & 102 Reading Composite ding Comprehension Letter & Word Recognition 60 70 80 90 100

Alejandro's Discrepancy Consistency Results

Alejandro is not a 'slow learner'

He as a specific learning disability

Basic psychological processing disorders in Attention and Successive processing with academic failure

He has good scores in Planning and Simultaneous processing

He has had adequate educational instruction

How would we identify his SLD?

34

33

Discrepancy Consistency Method (DCM)

**The Discrepancy Consistency Method (DCM)*

**Method (DCM)*

**Was first introduced in 1999 (most recently in 2017)*

**The essence of the Discrepancy Consistency Method is two discrepancies and one consistency Discrepancy I:

**Significant variability among the PASS in composition of the scores undefinition of what constitutes a basic psychological process. Consistency Method is two discrepancy Consistency Method is two dis

Piscrepancy Consistency Method

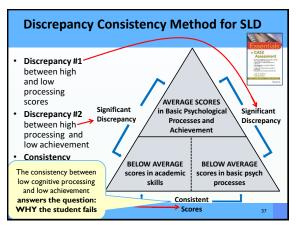
The Discrepancy Consistency Method is used to determine if there is evidence of "a disorder in 1 or more of the basic psychological processes ... which manifests itself in the imperfect ability to listen, think, speak, read, write, spell, or do mathematical calculations."

The disorder in 1 or more basic psychological processes is found when a student shows a pattern of strengths and weaknesses in basic psychological processes, and...

The imperfect ability to listen, think, speak, read, write, spell, or do mathematical calculations is found when a student shows a pattern of strengths and weaknesses in achievement

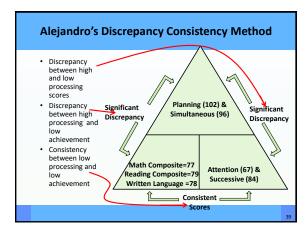
The result is two discrepancies and a consistency

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How to Determine a Disorder PASS Scales ➤Two sets of PASS NOT scores were studied Subtests · Significant variation in relation to student's average has instructional relevance Significant variation in Significant relation to student's average AND a standard score less than 90 (< 25th %tile) Attention Simultaneous supports designation as SLD

37 38



IDEA 2004 "(3) ADDITIONAL REQUIREMENTS.—Each local educational agency shall ensure that— "(A) assessments and other evaluation materials used to assess a child under this section ssess a child under this section—

"(i) are selected and administered so as not to discriminatory on a racial or cultural basis;

"(ii) are provided and administered in the language and form most likely to yield accurate information on what the child knows and can do academically, non discriminatory assessments developmentally, and functionally, unless it is not fea-sible to so provide or administer;

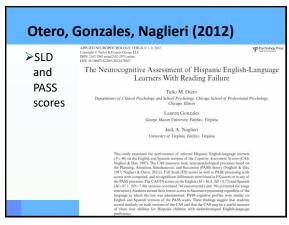
"(iii) are used for purposes for which the assess-ments or measures are valid and reliable; valid and reliable "(iv) are administered by trained and knowledgeassessment able personnel; and
"(y) are administered in accordance with any instructions provided by the producer of such assessments; "(B) the child is assessed in all areas of suspected disability; "(C) assessment tools and strategies that provide rel-evant information that directly assists persons in deter-

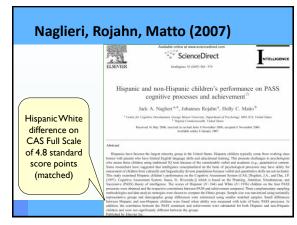
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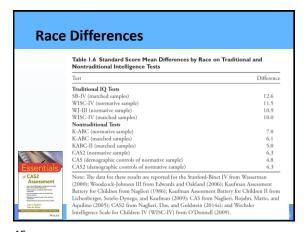
Bilingual Hispanic Child English and Spanish Ver Assessment System	ren's Performance on the sions of the Cognitive
Jack A. Naglieri George Mason University Tulio Otero Columbia College, Elgin Campus Brianna DeLauder	School Psychology Quarterly 2007, Vol. 22, No. 3, 432–448
George Mason University Holly Matto Virginia Commonwealth University	
on the Planning, Attention, Simultar sured by English and Spanish version (CAS; Naglieri & Das, 1997a). The re on both English and Spanish version CAS, the bilingual children earned the regardless of the language used duris	ce of referred bilingual Hispanic childre successive (PASS) theory as me ons of the Cognitive Assessment Syste sculls suggest that students scored similar is of the CAS. Within each version of to the CAS within each version of the total site flowest scores in Successive processive guest administration. Small mean differ of the English and Spanish versions for a

English & Spanish CAS Means, SDs, d-ratios, Obtained and Correction Correlations Between the English a Spanish Version of the CAS (N = 55). CAS English CAS Spanish d-ratio Correlations SD SD Obtained Corrected Planning 92.6 13.1 92.6 13.4 .00 .96 .97 Simultaneous 89.0 12.8 93.0 13.7 -.30 .90 .93 Attention 94.8 13.9 95.1 13.9 -.02 .98 .98 Successive 78.0 13.1 83.1 12.6 -.40 .82 .89 87.6 Full Scale 84.6 13.6 13.8 -.22 .96 .97

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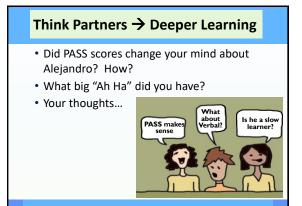
Core Groups → Deeper Learning

• Did PASS scores change your mind about Alejandro? How?

• What big "Ah Ha" did you have?

• Your thoughts...

45 46



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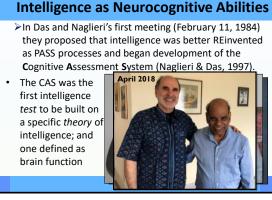
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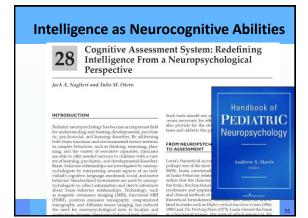
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From IQ to Brain Function

- ► Learning is based on BRAIN function
 - Wechsler (traditional IQ) was not based on the brain
 We can now view intelligence as neurocognitive processes based on brain function (A. R. Luria)
- ➤ **RE**invent understanding of intelligence based on the brain
 - · Measure brain function, not IQ
 - Do not include achievement test questions
 - Measure thinking not knowledge

49 50





PASS & BRAIN FUNCTION

Third Functional Unit: Planning Theorem and Theorem a Whole Problems

First Functional Unit: Simultaneous Things or Ideas That Form a Whole Problems

First Functional Unit: Successive Working With Things or Ideas in Sequence
Figure 1.2 Three Functional Units and Associated Brain Structures
From: Essentials of CAS2 Assessment. Naglieri & Otero, 2017

51 52

PASS Theory: Planning

- ▶ Planning is a neurocognitive process that a person uses to determine, select, and use efficient solutions to problems
 - · problem solving
 - developing plans and using strategies
 - · retrieval of knowledge
 - · impulse control and self-control
- These can also be described as executive function, metacognition, strategy use

Which Lemming has good Planning?

53 54

Directions for Items 1–10. These questions ask how well the child or adolescent decides how to do things to achieve a goal. They also ask how well achieve a goal. They also ask how well achieve achieve achieve and an anoids impulsitry, Please rate how well the child or adolescent creates plans and strategies to solve problems.

During the past month, how often did the child or adolescent ...

1. produce a well-written sentence or a story?

2. evaluate his or her own actions?

3. produce several ways to solve a problem?

4. have many ideas about how to do things?

5. have a good idea about how to complete a task?

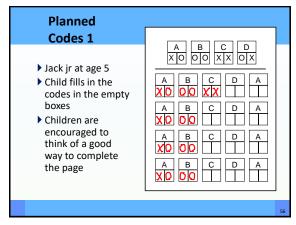
6. solve a problem with a new solution when the old one old in not work?

7. use information from many sources when doing work?

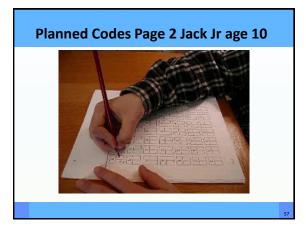
8. effectively solve new problems?

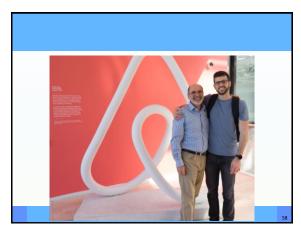
9. have well-described goals?

10. consider new ways to finish a task?



55 56





57 58

Note to the Teacher:
When we teach children skills by helping them use strategies and plans for learning, we are teaching both knowledge and processing. Both are important.

Doubles and Near Doubles

Doubles and Near Doubles

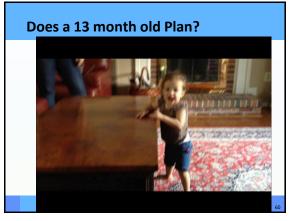
Reg the Gouble, Add Teacher the Near Doubles

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Planning Learning Curves

> Learning depends upon many factors especially PASS
> At first, PASS plays a major role in learning
> When a task is practiced and learned it requires less thinking (PASS) and becomes a skill

Role of PASS

Role of Knowledge
& Skills

Minimum Use

Over time and with effort

Note: A skill is the ability to do something well with minimal effort (thinking)

61 62



The case of Rocky

Rocky¹ is a real child with a real problem
He lives in a large middle class school district
a wide variety of services are available
In first grade Rocky was performing significantly below grade benchmarks in reading, math, and writing.
He received group reading instruction weekly and six months of individual reading instruction from a reading specialist
He made little progress and was retained

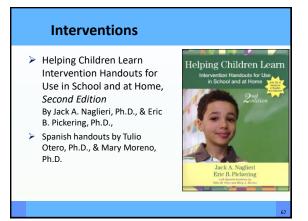
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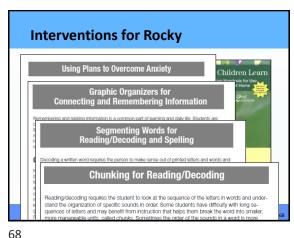
▶ By the middle of his second year in first grade Rocky was having difficulty with • decoding, phonics, and sight word vocabulary; math problems, addition, fact families, and problem solving activities; • and focusing and paying attention." ➤ After two years of special team meetings and special reading instruction he is now working two grade levels below his peers and is having difficulty in reading, writing, and math ➤ A comprehensive evaluation was conducted

Discrepancy Consistency Method for Rocky Discrepancy between high and low processing Processing scores Discrepancy Significant between high Discrepancy Strengths in Significant Simultaneous = 102 Discrepancy & Attention = 98 processing and low achievement Processing Consistency Weaknesses in between low Academic Skills processing and Planning (72) Weakness(es) low achievement and Successive (76) Consistent ______

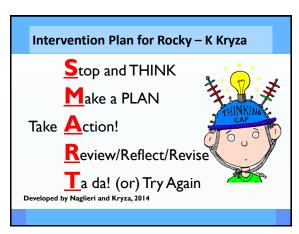
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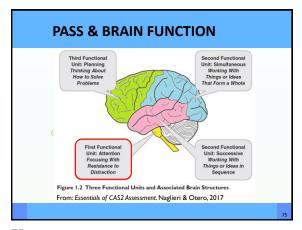


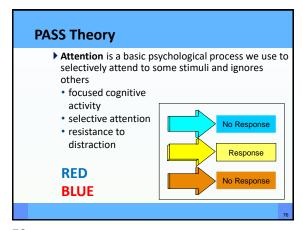


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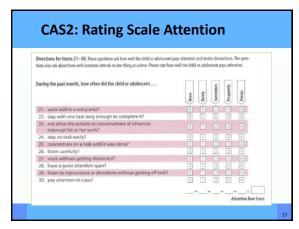


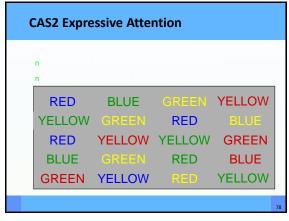




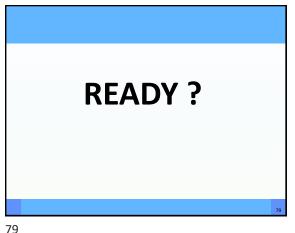


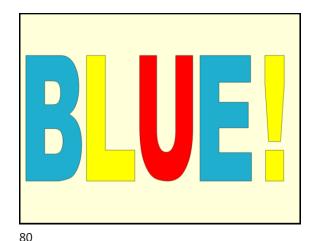
75 76





77 78





Expressive Attention - Italiano ROSSO BLU GIALLO GIALLO ROSSO ROSSO GIALLO GIALLO VERDE BLU ROSSO ROSSO VERDE GIALLO BLU GIALLO

Find the numbers that look like this: 1 2 3
> Items 1 - 4 have 180 numbers on each page > Each child is given two pages > Targets appear at the top of the page > Score for targets found and false detections

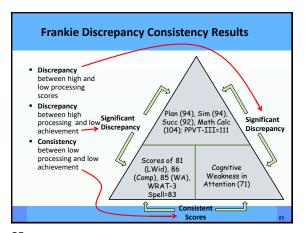
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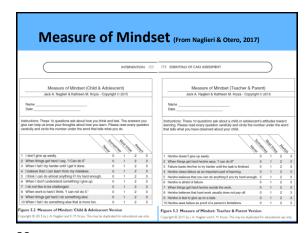
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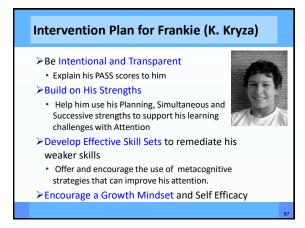
Attention II . A 3:15 A.M. B 3:30 P.M. C 3:15 P.M. 12. Trent began studying at 5:00 p.m. and finished 1 hour and 22 minutes later. What time did he finish? A 6:22 A.M. B 5:22 R.M. C 6:10 R.M. D 6:22 R.M. 13. Maura began basketball practice at 3:00 R.M. and finished 50 minutes later. What time did she finish? A 3:50 P.M. B 3:05 A.M. C 4:05 P.M. D 4:50 A.M. Reading comprehension is difficult because of the similarity of the options

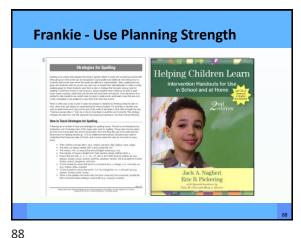
Frankie at age 11 years ➤ Referred by parents (at age 11) after a history of reading and self esteem problems ➤ High level of anxiety • he was too anxious to look closely at the words, and he would rather get the task completed and move on. • Frankie could not attend to the details of the sequence of letters for correct spelling, and the order of soundsymbol associations

83 84

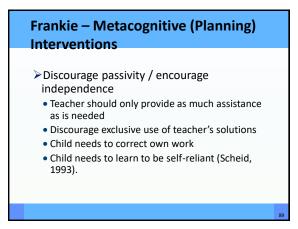


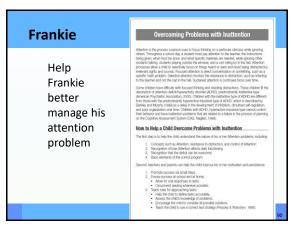






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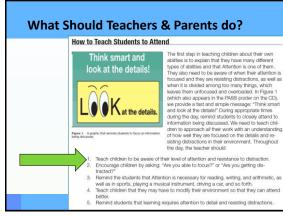


89 90

Frankie - Interventions

- Teach rules for approaching tasks
 - Define tasks accurately
 - Assess child's knowledge of the problem
 - Consider ALL possible solutions
 - Evaluate value of all possible solutions
 - Checking work carefully is required
 - Correct your own test strategy (see Pressley & Woloshyn, 1995, p. 140).

91 92



Pay Attention

- Intentionally and Transparently Teach Students...
- Focus and know what to focus on
- · Learn to Resist distractions
- Sustain attention over time
- From K. Kryza (2018)



Frankie and Successive Processing

- **≻**Spelling
 - Strategies for Spelling (pp.102-103)
 - Segmenting Words for Reading/Decoding and Spelling (p. 89)
- These are designed to help him perform better when tasks require a lot of Successive processing.



93

94

Core Groups → Deeper Learning

- ➤ Thoughts about Attention
- ➤ Have you seen students like Frankie?
- ➤ Your reactions...



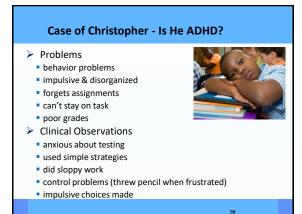
Think Partners → Deeper Learning

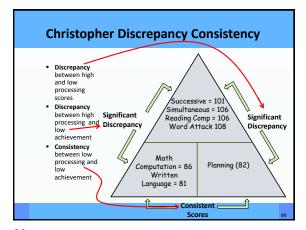
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- · Your thoughts...



95 96





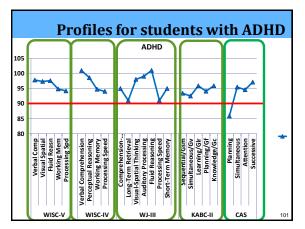


ADHD Profiles by Ability Test

Assessment of Cognitive and Neuropsychological Processes

Jean National Jean House House

99 100



Canivez & Gaboury (2010)

""the present study demonstrated the potential of the CAS to correctly identify students who demonstrated behaviors consistent with ADHD diagnosis." "But a Company of the CAS to the constraint of the CAS to correctly identify students who demonstrated behaviors consistent with ADHD diagnosis." "But a Company of the CAS to th

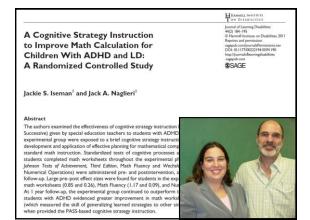
101 102

Intervention Plan (K. Kryza)

- ➤ Be Intentional and Transparent
- · Explain his PASS scores to him
- ➤ Build on His Strengths

Help him use his Attention, Simultaneous and Successive Strengths to support his learning challenges with Planning
 Develop Effective Skill Sets to remediate his weaker skills
 Offer and encourage the use of metacognitive strategies that can improve his planning. Think Smart!
 Encourage a Growth Mindset and Self Efficacy

103 104



Experimental and Comparison Groups
7 worksheets with Normal Instruction

Experimental
Group
19 worksheets with
Planning Facilitation

Comparison
Group
19 worksheets with Normal
Instruction

Helping Children Learn Resources

Strategies for Learning Basic Helping Children Learn

➤ Planning Facilitation

Math Facts

105 106

Instructional Sessions

- Math lessons were organized into "instructional sessions" delivered over 13 consecutive days
- > Each instructional session was 30-40 minutes
- Each instructional session was comprised of three segments as shown below

10 minutes	10-20 minutes	10 minutes
10 minute math worksheet	Planning Facilitation or Normal	10 minute math worksheet
	Instruction	

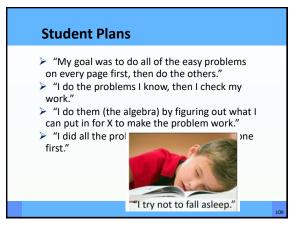
Planning (Metacognitive) Strategy

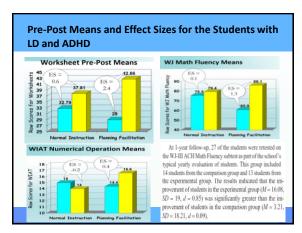
- ▶ Teachers *facilitated* discussions to help students become more self-reflective about use of strategies
- ▶ Teachers asked questions like:
 - · What was your goal?

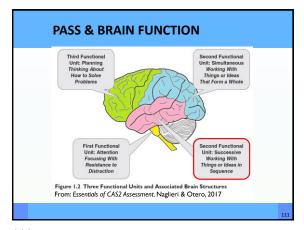
Instruction

- · Where did you start the worksheet?
- · What strategies did you use?
- · How did the strategy help you reach your goal?
- What will you do again next time?
- What other strategies will you use next time?

107 108







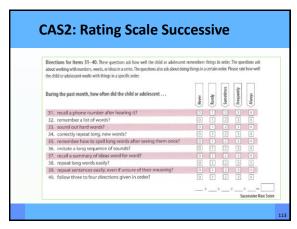
Modern Theory: Successive

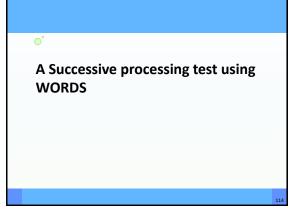
Successive processing is a basic psychological process we use to manage stimuli in a specific serial order

Stimuli form a chain-like progression
Word Series

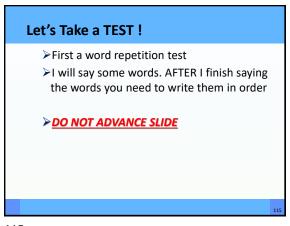
Girl

111 112



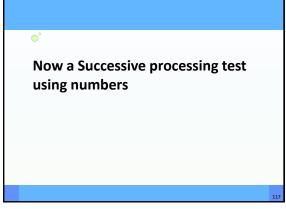


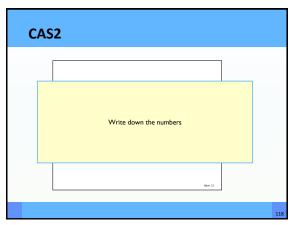
113 114



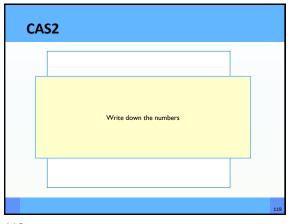
 Man Cow Key
 Book Shoe Girl Dog Car
 Girl Book Dog Car Wall Cow Key Shoe

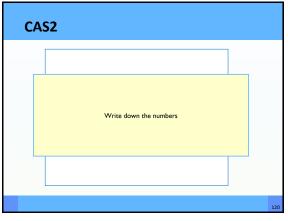
115 116



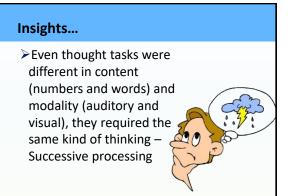


117 118





119 120



Speech and Successive processing (Samantha at age 3 ½ yrs)

121 122

PASS Theory: Successive

- Successive processing is used when information is in a specific serial order
 - · Decoding words
- Letter-sound correspondence
- · Phonological tasks
- Understanding the syntax of sentences
- Comprehension of written instructions
- Sequence of words, sentences, paragraphs
- Remembering the sequence of events in a story that was read

stated by the examiner such as:

Successive and Syntax

sentences exactly as

The red greened the

blue with a yellow.

> Sentence Repetition

Child repeats

- Sentence Questions
 - Child answers a question about a statement made by the examiner such as the following:
 - The red greened the blue with a yellow. Who got greened?

123 124

The sequence of the sounds is emphasized in this work sheet Active and applications Annie ate applies

Phonemic Awareness = Successive

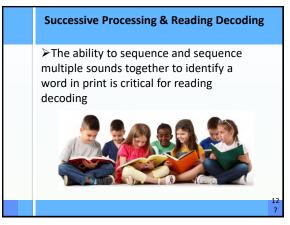
"Now I am going to say parts of words. I want you to put the parts together to make a whole word."

Blending: Advantage

| Item | Correct response | # of syllables | Score | ad: van: tage | advantage | 3 | 0 | 1 |

From the Feifer Assessment of Reading (2016)

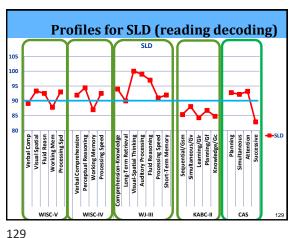
125 126

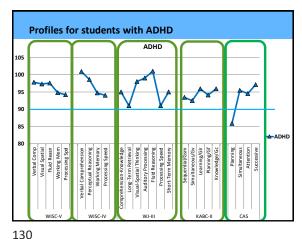


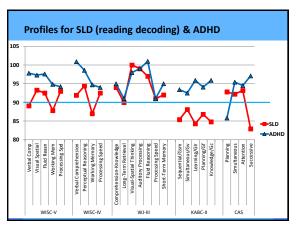
PASS - ADHD and SLD weaknesses

Students with SLD in Reading Decoding, Spelling, phonological skill deficits and related problems have difference PASS profiles from those with ADHD

127 128

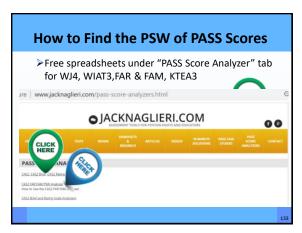


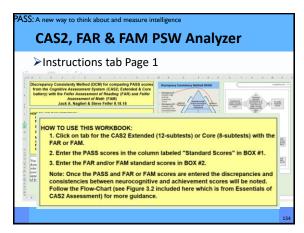


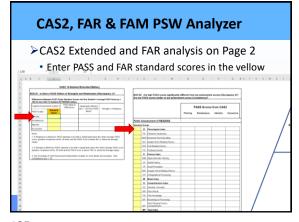


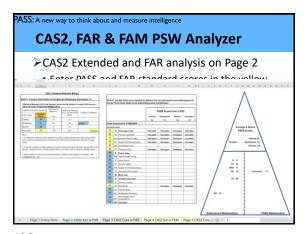
PASS Profiles and Educational Placement Students receiving special education were more than Can Profile Analysis of Ability Test Scores Work? four times as likely An Illustration using the PASS Theory and CAS to have at least with an Unselected Cohort one PASS Jack A. Naglieri weakness and a comparable A new approach to ipacitive, or intraindividual, analysis of children's profiles on a test ability was studied. The Planning, Attention, Simultaneous, and Successive (PAS ability assured to the Planning, Attention, Simultaneous, and Successive (PAS processes measured by the Cognitive Assessment System were used to illustrate how processes measured by the Cognitive Assessment System were used to illustrate how processes the accomplished. There methods were used to examine the PASS principle of a nationally representative sample of 1,507 children from ages 5 through years. This sample included children in both regular (n = 1,433) and special (n = 144) ucational settings. Children with significant ipsatized PASS scores, called Relati academic weakness than those in regular education

131 132

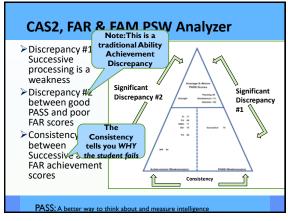


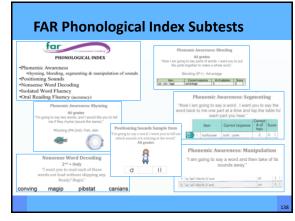






135 136





137 138



Case of Paul: 4th grade referral

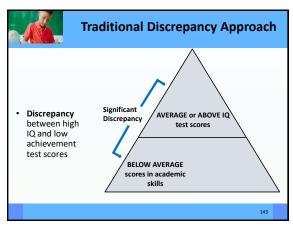
Case of Paul -A 9 year old in 4th grade
Problems in reading (and math)
Can't sound out words
Poor spelling
Poor reading comprehension
Good memory for details
Can't remember the sequence of steps when doing math and math facts

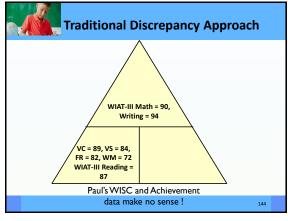
139 140

		9 years	
WISCV	COMPOSITE SCORE	RANGE	PERCENTILE RANK
Verbal Comprehension	89	Below Average	23%
Visual Spatial	84	Below Average	14%
Fluid Reasoning	82	Below Average	12%
Working Memory	72	Very Low	3%
Processing Speed	76	Very Low	6%
FULL SCALE SCORE	81	Below Average	10%
WIAT III Reading	87	Below Average	19%
WIAT III Math	90	Average	25%
WIAT III Writing	94	Average	34%

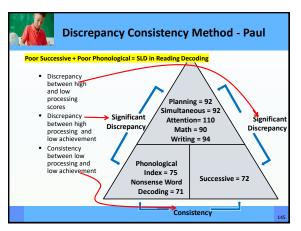
FAR index	Standard score (95% CI)	Percent	tile	Qualitative descriptor	
Phonological Index	75	5%	Mode	erately Below Avera	
Fluency Index	92	30%		Average	
Mixed Index	81	10%		Below Average	
Comprehension Index	97	42%		Average	
FAR Total Index	84	14%		Below Average	
KEY INTERPRETATION		Score	Percentil e	Descriptor	
Nonsense Word Decoding decode a series of nonsense increasing difficulty.		of 71	3%	Moderately Below	
Irregular Word Reading Fl list of phonologically irregul increasing difficulty in 60 se	ar words arranged in orde		37%	Average	

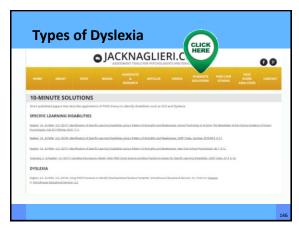
141 142

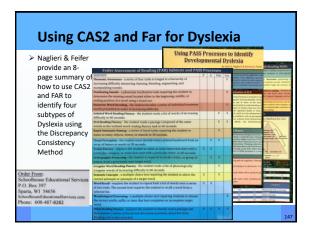


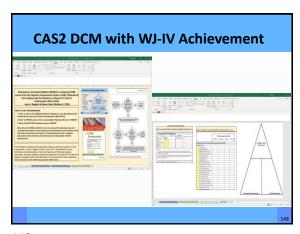


143 144

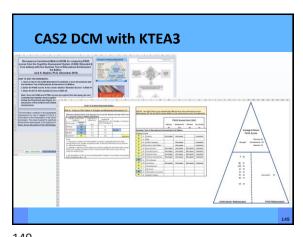


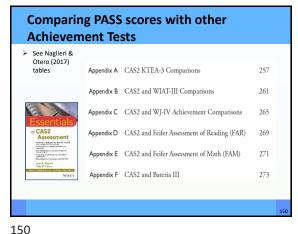






147 148





149 150

K. Kryza's Intervention Plan for Paul

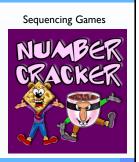
➤ Be Intentional and Transparent

- Explain what PASS scores mean to engage the student in the solutions and build confidence
- ➤ Build on His Strengths
 - · Help him use his Planning, Attention, Simultaneous and Strengths to support his learning challenges with **Successive Processing**
- Offer and encourage the use of metacognitive strategies that can improve his Successive Processing skills.
- ➤ Encourage a Growth Mindset and Self Efficacy

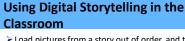
Math Sequencing

> Encouraging students to write out the steps for solving problems. (For example: Steps for solving addition and subtraction problems that include regrouping)

Use a simple sheet of paper folded into four squares. Ask students to write the steps in order in the squares.



151 152



- Load pictures from a story out of order, and then save the file as a project.
- > Have students rearrange the pictures to assess them for



PASS & BRAIN FUNCTION Third Functiona Unit: Planning Thinking About How to Solve Problems Second Functiona Unit: Simultaneous Working With Things or Ideas That Form a Whole First Functional Unit: Attention Focusing With Resistance to Distraction Second Functional Unit: Successive Working With Things or Ideas in Figure 1.2 Three Functional Units and Associated Brain Structures From: Essentials of CAS2 Assessment. Naglieri & Otero, 2017

153 154

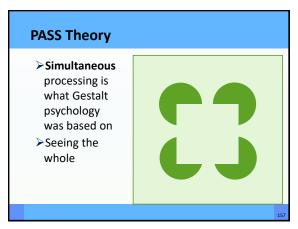
PASS Theory

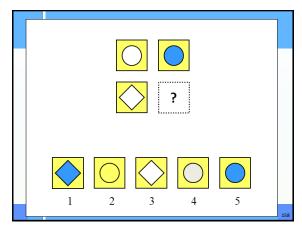
- ➤ Simultaneous processing is used to integrate stimuli into groups
 - · Stimuli are seen as a whole
 - · Each piece must be related to the other
 - · Whole language
 - · Seeing word as a whole
 - · Verbal concepts
- · Geometry, math word problems

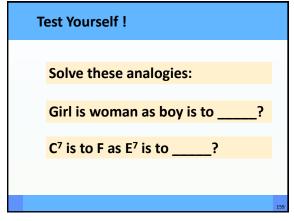


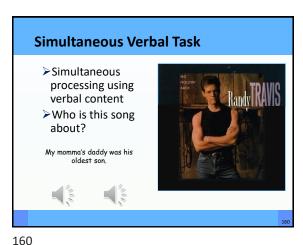
CAS2: Rating Scale Simultaneous Directions for Items 11–20. These questions ask how well the child or adolescent sees how things go together. They also ask about working with diagrams and understanding how ideas fit together. The questions involve seeing the whole without getting lost in the parts. Please rate how well the child or adolescent risualizes things as a whole. During the past month, how often did the child or adolescent . . . 11. like to draw designs? 0 1 2 3 4 figure out how parts of a design go together?
 classify things into groups correctly?
 work well with patterns and designs? 15. see how objects and ideas are alike?
16. work well with physical objects?
17. like to use visual materials? 18. see the links among several things?
19. show interest in complex shapes and patterns?
20. recognize faces easily?

155 156

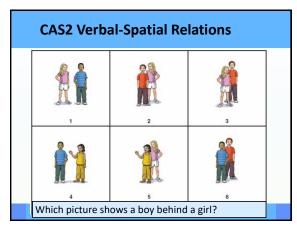


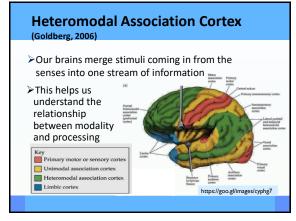




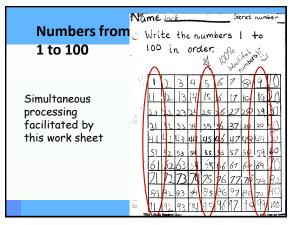


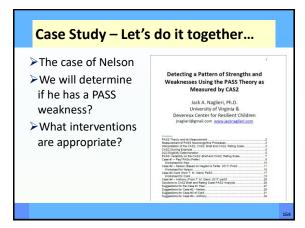
159 1

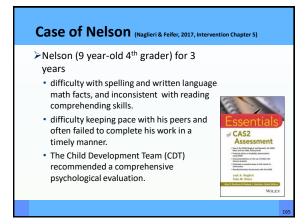


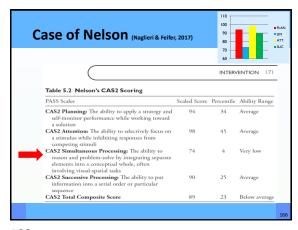


161 162

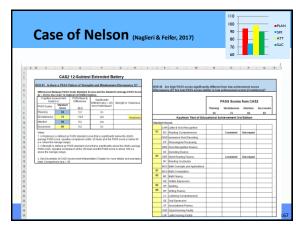


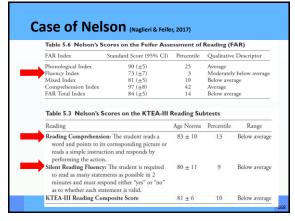




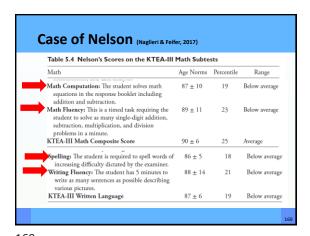


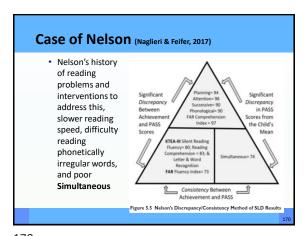
165 166

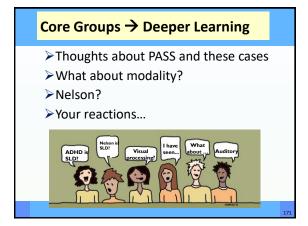




167 168





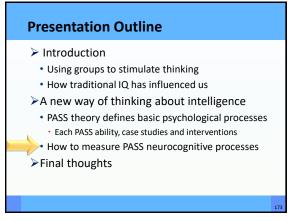


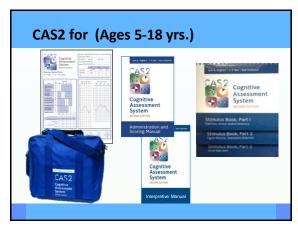
Think Partners → Deeper Learning

> Thoughts about PASS and these cases
> What about modality?
> Nelson?
> Your reactions...

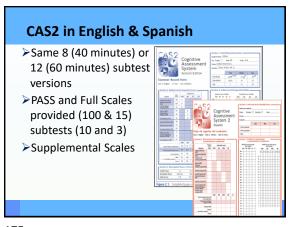
PASS makes what about auditory processing auditory processing

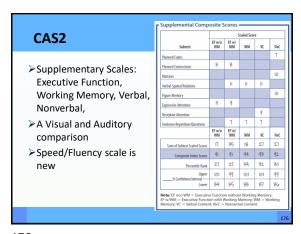
171 172

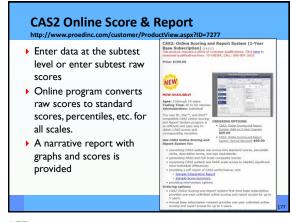


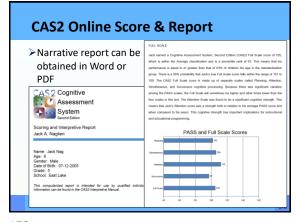


173 174

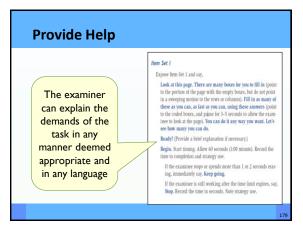


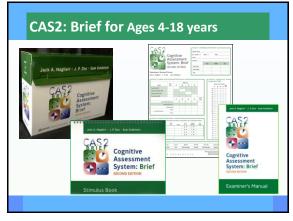




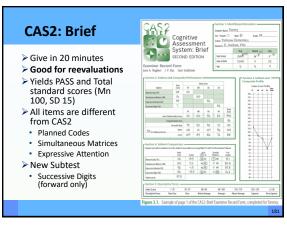


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179 180



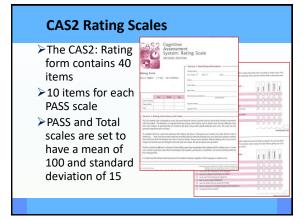
CAS2 Rating Scales (Ages 4-18 yrs.)

➤ The CAS2: Rating measures behaviors associated with PASS constructs

Normed on a nationally representative sample of 1,383 students rated by teachers



181 182



CAS2 Rating Scales

The rater is given a description of what each scale is intended to measure.

This informs teachers about PASS

Directions for Items 1–10. These questions ask how well the child or adolescent decides how to do things to achieve a goal. They also ask how well a child or adolescent thinks before acting and avoids impulsivity. Please rate how well the child or adolescent creates plans and strategies to solve problems.

Directions for Items 11–20. These questions ask how well the child or adolescent sees how things go together. They also ask about working with diagrams and understanding how ideas fit together. The questions involve seeing the whole without getting lost in the parts. Please are tho well the child or adolescent visualizes things as a whole.

Directions for Items 21–30. These questions ask how well the child or adolescent pays attention and resists distractions. The questions also ask about how well someone attends to one thing at a time. Please rate how well the child or adolescent pays attention.

Directions for Items 31—40. These questions ask how well the child or adolescent remembers things in order. The questions ask about working with numbers, words, or ideas in a series. The questions also ask about doing things in a certain order. Please rate how well the child or adolescent works with things in a specific order.

183 184

Reactions...

- Are you comfortable with the PASS approach to psychological processes and its measurement using the various CAS2 measures?
 - Does it... make sense?
 - help you justify an SLD determination?
 - give you ideas for intervention?
- Your questions and reactions?

185 186

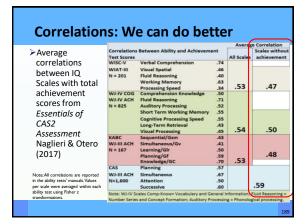
3 I

Presentation Outline Introduction Using groups to stimulate thinking How traditional IQ has influenced us A new way of thinking about intelligence PASS theory defines basic psychological processes Each PASS ability, case studies and interventions How to measure PASS neurocognitive processes Final thoughts

PASS theory and CAS

- ➤ Does it work?
 - PASS scores are strongly correlated with achievement test scores
- PASS profiles are different for SLD, ADHD, ASD, etc. supporting the Discrepancy Consistency Method
 - DCM answers the question: WHY does the student fail?
- PASS theory is the fairest way to test diverse groups
- PASS scores are strongly related to regular and special educational instructional decisions
- PASS is easily measured in 40-60 minutes

187 188



THANK YOU!

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www.jacknaglieri.com