PASS Neurocognitive Theory of Intelligence: Assessment, Eligibility Determination and Intervention using the CAS2

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How Are You Feeling Today?



Let's Get Ready to Learn



Mindful Breathing

PASS Theory & CAS





Core Group Discussion → Deeper Learning

- **■ C**oach Help the group decide what to do
- Organizer Guide the discussion
- Recorder Keep notes and speak for the group
- Energizer Focus the group!



The **BIG** picture

- The comprehensive assessments we provide can alter the course of a student's life; making this one of the most
- course or a student's life; making this one of the most important tasks we have.

 We want Intellectual assessment that
 Is consistent with IDEA and state regulations regarding SLD determination Helps us understand WHY a student fails
 Informs us about cademic strengths & weaknesses and interventions
- These goals can be achieved if we use second-generation tests that measure the way students THINK to LEARN
 The definition of THINKING should be based on BRAIN function PASS theory is a way of defining THINKING and the Cognitive Assessment System $2^{\rm nd}$ Edition a way to measure a student's ABILITY to think

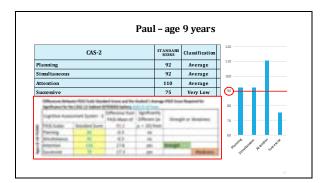
Case of Paul: gr. 4 Dyslexia (Steve Feifer)

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

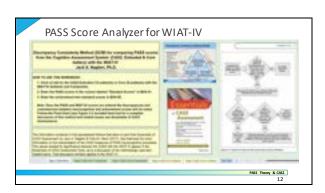


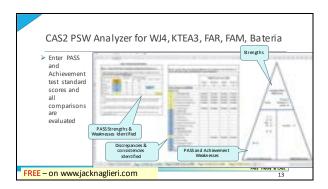
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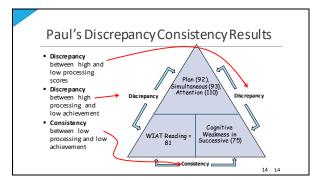
Paul - age 9 Presenting Concerns: Reading, Math Word Problems, Al WISC-V scores CAS2 PASS scores WISC-V 89 Visual Spatial 84 Fluid Reasoning 82 72 Processing Speed 76 FULL SCALESCORE 81 WIATIV Reading 81 WIATIV Math 90 WIATIV Writing 94











Intervention Protocol (Naglieri & Kryza, 2019)

- 1. Help child understand their PASS strengths and challenges (be intentional & transparent)
- 2. Encourage Motivation & Persistence (student's mindset)
- 3. Encourage strategy use (build skill sets)
- 4. Encourage independence and self efficacy (metacognition, self assessment & self correction)

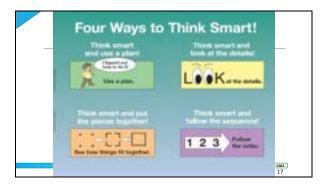
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Be Intentional and Transparent

- > The test results showed that your brain is strong at
 - Noticing details (Attention),
 - seeing how things go together (Simultaneous)
 - And figuring out how to do things (Planning)
- > The results also showed that
- It is very hard for you to follow a sequence (Successive)
- $\,\blacktriangleright\,$ But we can help you with that...
 - Handouts for students to manage sequences

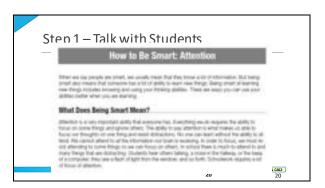


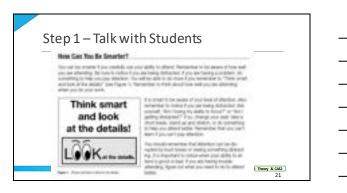
PASS Theory & CAS2



Step 1 – Talk with Students How to Be Smart: Planning

How Can You Be Smarter?		
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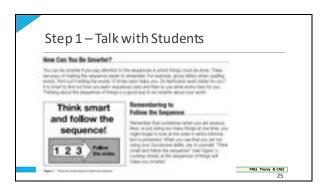


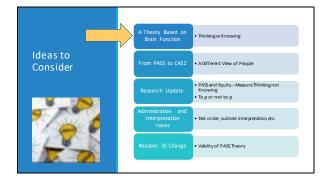


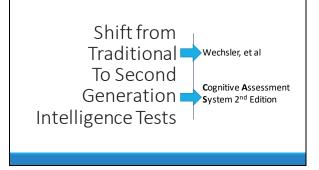
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How to Be Smart: Successive
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Intelligence as Neurocognitive Functions

- In my first working meeting with JP Das (February 11, 1984) we proposed that intelligence was better REinvented as neurocognitive processes andwe began development of the Cognitive Assessment System (Naglieri & Das, 1997).
- We conceptualized intelligence as Planning, Attention, Simultaneous, and Successive (PASS) neurocognitive processes based on Luria's concepts of brain function.



Key Attributes of a Second-Generation Intelligence Test

- We started with a THEORY of intelligence based on the BRAIN as described by A. R. Luria
- We selected and created test questions to measure THINKING defined as PASS
- We did not include test questions that demand KNOWING such as Vocabulary, etc.
- There is now considerable research to demonstrate that PASS scores from the CAS are equitable, interpretable beyond the total sore, yields profiles for strengths and weaknesses, and leads to intervention

PASS Theory & CAS2

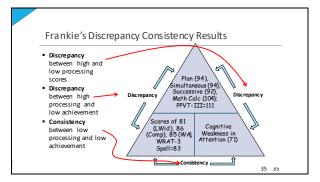
Neuropsychological Correlates of PASS Naglieri, J. A., & Otero, T. M. Redefining Intelligence as the PASS Theory of Neurocognitive Processes.

CAS2 Measures Thinking (PASS) not Knowing > What does the student have to know to complete a task? • This is dependent on educational apportunity (e.g., Vocabulary, Arithmetic, phonological skills, etc.) I don't know The stream of the brain's neurocognitive processes I need a PLAN1

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 = 'basic psychological processes' NOTE: Easy to understand concepts!

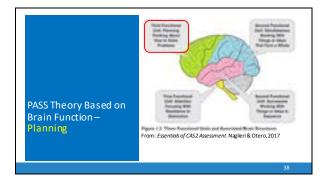
PASS Provides a Common Language Psychologists, teachers, parents, and students can all use a common language to describe abilities without the esoteric terms we have used for years – NO psychobabble From: Essentials of CAS2 Assessment. Naglieri & Otero, 2017

Frankie was struggling in school at age 11 P. Referred by parents after a history of reading and self esteem problems P. 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 sound—symbol associations



Frankie: Then Informed Frankie of his PASS scores, and everything changed He learned to manage his attention problem by using good Planning which helped him recognize when he is off task Think of possible ways to manage his attention recognize when he needed a change in the environment to reduce distractions Perhaps most importantly: He was given hope – that he could succeed Pass Theory & CASL These Theory & CASL The street of the survival of the surv

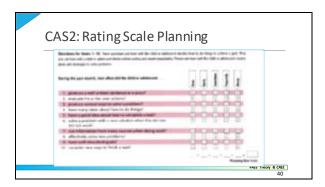


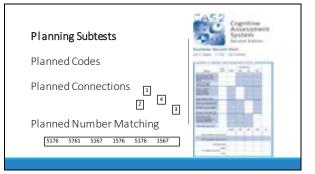


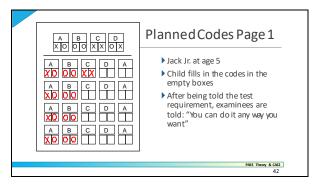
PASS Theory: Planning

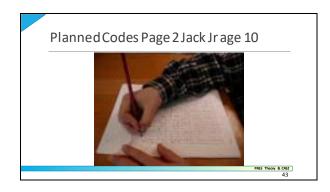
- > Planning is a term used to describe a neurocognitive function similar to metacognition and executive function
- ➤ Planning is needed for setting goals, making decisions, predicting the outcome of one's own and others actions, impulse control, strategy use and retrieval of knowledge
- Planning helps us make decisions about how to solve any kind of a problem from academics to social situations and life in general
- > Math calculation, written expression, etc

PASS Theory & CA



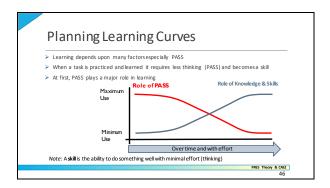


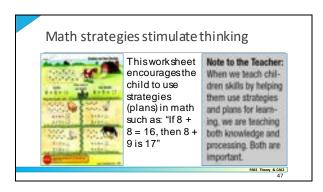














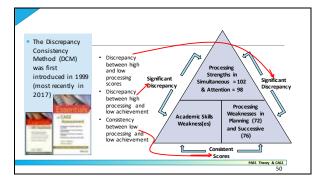
The case of Rocky

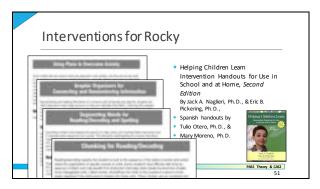
- Rocky¹ went to school in a large middle-class district
 In first grade Rocky was significantly below grade benchmarks in reading, math, and writing.
 He received group reading instruction weekly and six months of individual reading instruction but minimal progress → retained
- By the middle of his second year in first grade he still struggling
 decoding, phonics, and sight word vocabulary, math problems, addition, 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 in reading, writing, and math

Note: This child's name and other potentially severaling data have been changed to potent his identity.

PRES Theory & CAS2

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Math lessons were organized into "instructional sessions" delivered ove				
13 consecutive days	· [10 minutes	10-20 minutes	10 minutes
Each instructional session was 30-40 minutes	ľ	10 minute math	Planning Facilitation or	10 minute math
 Each instructional session was comprised of three segments as show below 	n	worksheet	Normal Instruction	worksheet
Experimental Group]	Contro	ol Group	
19 worksheets with Planning Facilitation	Vs.	19 workshe	ets with Normal ruction	

Planning (Metacognitive) Strategy Instruction

Teachers Asked

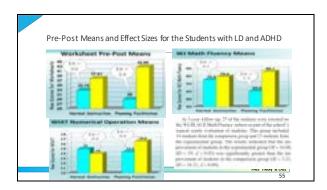
▶ Teachers facilitated discussions to help students become more self-reflective about use of strategies '> "My goal was to do all of the easy problems on every page first, then do the others."

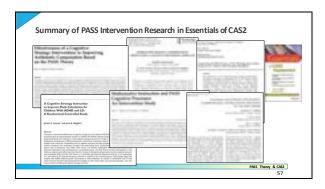
- ▶ Teachers asked questions like:
- What was your goal?Where did you start the worksheet?
- What strategies did you use?
- How did the strategy help you reach your goal?
 What will you do again next time?

Students Responded

easy problems on every page first, then do the others."

- "I do the problems I know,
- then I check my work." > "I draw lines to keep the columns straight"
- "I did the ones that took the least time"





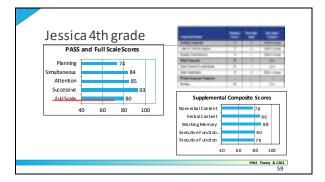
Jessica

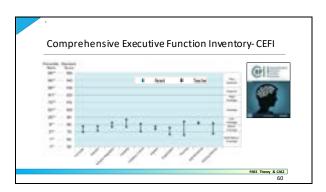
- Previous diagnoses of ADHD, ODD, Anxiety and Depression.
- > Received OT since 1st grade.
- Since 3rd grade the OT focus was helping the teacher to teach strategies for self monitoring, attention, visual sequencing, and organization

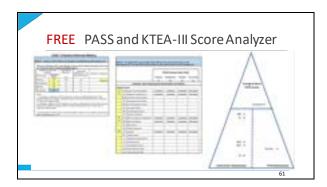


- Problems following verbal directions, inefficient work, struggles to work in a noisy setting, is distractable, fiddles with objects, inflexible, and frustrates easily.
- > She receives speech and language services for language processing issues.
- Currently takes medications to manage her diagnoses, she takes Clonidine 0.2 mg to help with sleep and anger issues. She also takes Ritalin 40 mg ER in the am and 10 mg booster at lunch time.

PASS Theory & CAS2







Impressions

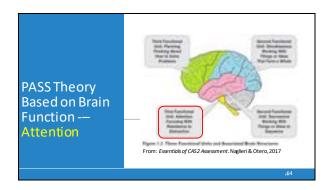
- This case is an example of the behaviors (CEFI) that are consistent with a low planning score on CAS2.
- ➤ Based on the data and teacher reports/observations, I see her low performance is driven by Low planning, EF, and Attention. She can't get to the point where she can fully recruit Simultaneous and Successive processes.

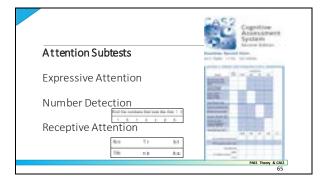
PASS Theory & CAS

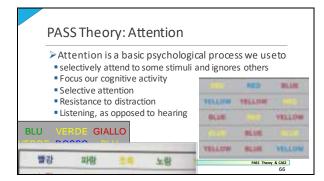
Core Group Activity

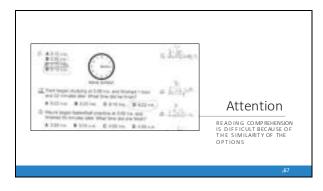
- QUESTIONS:
- We have looked at a few case studies, what is you impression of this approach to assessment?
- What are the possible advantages?

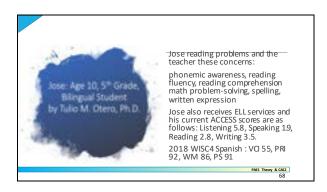


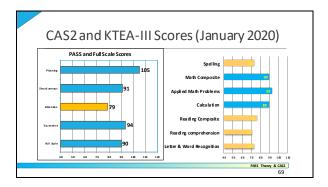


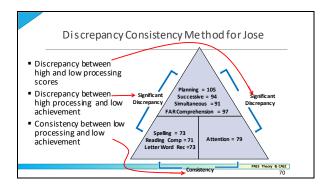










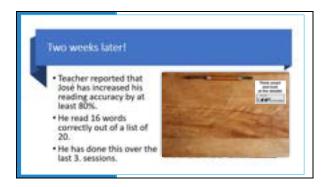


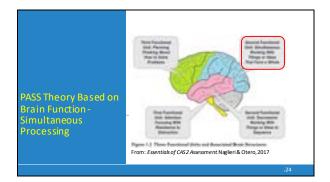
Intervention Protocol (Naglieri & Kryza, 2019)

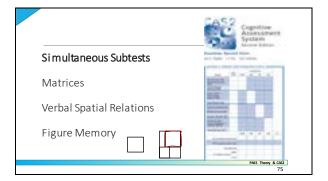
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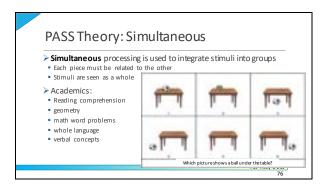
PASS Theory & CAS

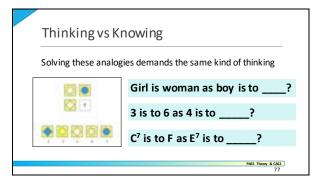
Jose was given this simple intervention Remember to check how well you are attending. If you are ha ving a problem, use a plan and look at this (taped to his desk). From: Nagler, J. A., & Pickering, E. B. (2010). Helping Children Learn. Intervention. How describe Publishing.

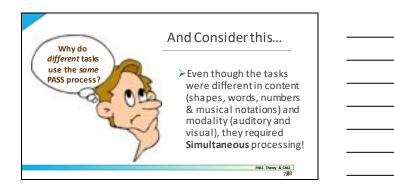


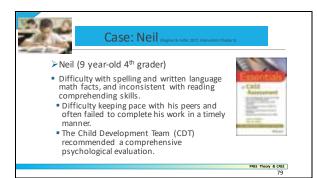










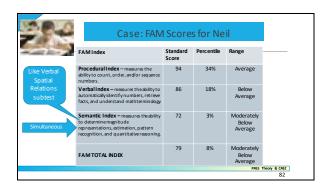


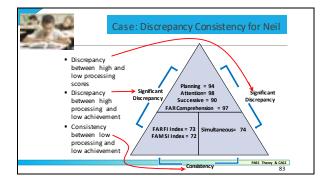
Case: Neil 4th grade -CAS2

CAS-2	STANDARD SCORE	RANGE
Planning:	94	Average
Attention:	98	Average
Simultaneous the ability to reason and problem solve by integrating separate elements into a conceptual whole, and often requires strong visual-spatial problem solving skills.	74	VeryLow
Successive	90	Average
CAS-2 Full SCalo	80	Bolow Average

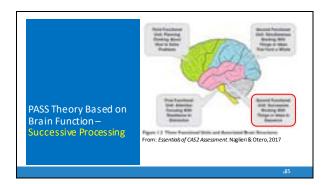
EXR index	Standard score
Photological Index	90
Fluorcy Index	79
Mixed Index	81
Comprehension Index	97
EAR Total Index	84

Mary Tana	KEY INTERPRETATION	Score	Percentile	Descriptor
Name and Address of	Isolated Word Reading Fluency – the student reads a list of phonologically regular words arranged in order of increasing difficulty in 60 seconds.	86	18%	Below Average
Simultaneous	Irregular Word Reading Fluency – the student reads a list of phonologically irregular words arranged in order of	71	3%	Moderately Below Average
	Increasing difficulty in 60 seconds. > He can apply decoding skills to familiar wo strategy when reading phonologically irregu			effective
. [>He can apply decoding skills to familiar wo			effective
Simultaneous	> He can apply decoding skills to familiar wo strategy when reading phonologically irregu	lar wo	ords.	





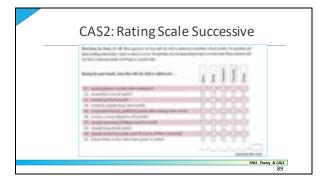
(Case: FAM Repor Websites and A		
	https://www.khanacademy.org, full of helpful videos explaining a va upon first logging in that determines	riety of math to pics, as well as	other academic topics
computer activities.	http://www.hco.damath.com/ d toward helping kids practice and le Specific math topics in clude addition basic physics, fractions, integers, an	, subtraction, multiplication,	
3. Estimation 180 Estimation 180 is a v school year.	http://www.estimation.180co.m website that presents a new estimation	on challenge every day of the	
4 Patrick IMT The "JMT" in Patrick math related topics.	http://patrickimt.com/ JMT stands for "Just Math Tutorials."	'This website has clear math vio	leos on a variety of
5 Cool Math 4 Kids A highly entertaining math topics for children.	https://www.coolmoth/kids.com gand interactivewebsiteofferinggan	nes, activities, puzzles, and chall	ienges for a variety of

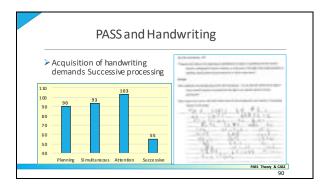




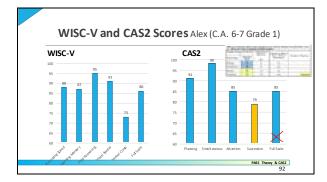
PASS Theory: Successive Successive processing is a basic psychological process we use to manage stimuli in a specific serial order Stimuli form a chain-like progression Recall a series of words Decoding words Letter-sound correspondence Phonological tasks Understanding the syntax of sentences Comprehension of written instructions

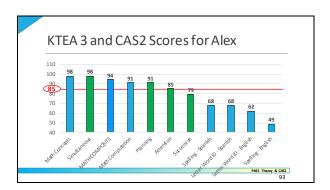
Successive and Syntax Sentence Repetition Child repeats sentences exactly as stated by the examiner such as: The red greened the blue with a yellow. Sentence Questions Child answers a question about a statement made by the examiner such as the following: The red greened the blue with a yellow. Who got greened?

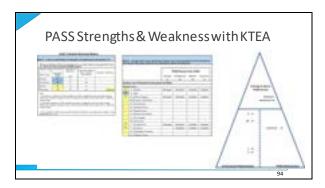




CASE by Tulio Otero: Alex (CA 6-7 GRADE 1) REASON FOR REFERRAL Is classified as Intellectual Disability. Team is interested in changing eligibility Academic: Limited skill to identify letters sounds Possible ASD Conversationally Bilingual Behavior: Difficulty following directions Attention concerns







Alex and PASS (by Dr. Otero)

- Alex's profile is revealing
- ▶ He has good processing scores:
- Simultaneous = 91 and Planning = 98
- ► He has a "disorder in one or more of the basic psychological processes • Attention = 85 and Successive = 79
- ▶ Using the Discrepancy Consistency Method (1999, 2017) he meets criteria for SLD (see Naglieri & Otero, 2017).



PASS Theory & CAS2

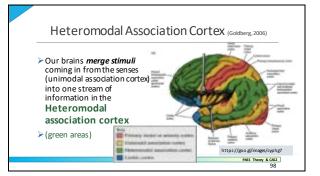
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PASS Theory & CAS

Be Intentional and Transparent

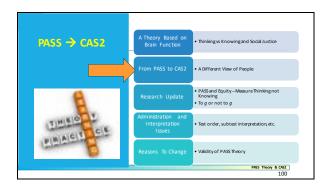
- ➤ Give Alex the PASS handouts
- "The test showed that your brain is strong in seeing the BIG PICTURE (Simultaneous Processing) and
- Recognizing strategies to use. (Planning Processing) Does that make sense to you?
- Explain to him the PASS areas that are challenges for him
 The part of your brain that makes learning challenging for you is the part that helps pay close attention, not get distracted by things around you, and keep all kinds of information in sequence (in order).
- We're going to work on using your strengths and helping you develop more skills.



Core Group Activity

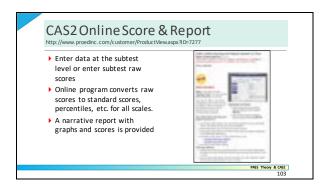
- QUESTIONS:
- What are the advantages of using PASS theory as measured by the CAS2
- What are the obstacles?

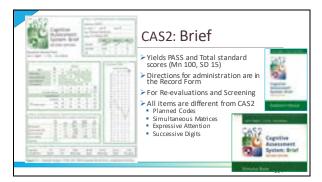


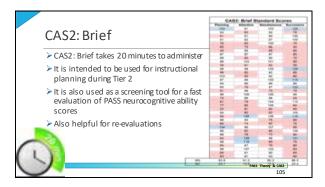


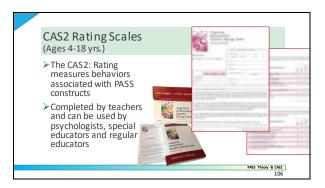












CAS2, CAS2 Online Score and Report Write, CAS2-Espanol, CAS2: Brief, CAS2 Rating Scale

This book is the most complete discussion of PASS theory and its measurement

Chapters cover all versions of the CAS2 as well as the online scoring and report writer

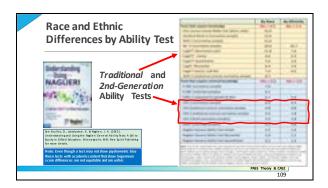
Administration, scoring, interpretation

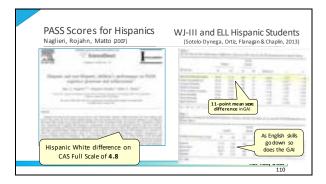
Reliability, validity (PASS profiles, evidence of test fairness,

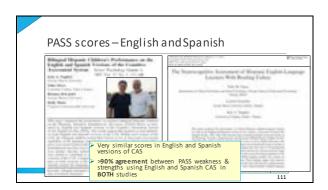
Discrepancy Consistency Method for SLD

Intervention planning and dinical case studies











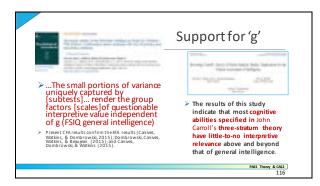
Measuring Thinking using CAS White children eamed smilar scores on the Verbal and Performance scales Black children eamed lower VQ than PIQ scores due to language / achievement tasks > low Full Scale Black children eamed higher Full Scale scores on CAS than whites Fewer Black children would be identified as having intellectual disability based on Full Scale scores using CAS than WISC-III THIS IS A SOCIAL JUSTICE ISSUE.





Research on Interpretation of Test Scores and PSW

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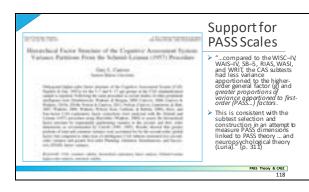
Research Supports 'g' but little More

Benson, N. F., Bessjem, A. A., McGill, R. J., S. Ombrowski, S. C. (2018). Reciting Carr offs Survey of factor Analytic Studies: implications for the Clinical Assessment of Int Heighner, *Psychological Assessment* 3, 0.8, 1028—1638.

Canheer, G. L., Watkins, M. W., & Bombrowski, S. C. (2017). Structural wildlifty of the Weddler in Belligence Scale for Children—filth telephone for the Clinical Assessment 2, 84, 94, 94.

Canheer, G. L., & McGill, R. J. (2016). Factor structure of the Differential Ability Scales—Second Edition Deptor day and their architecture of the Differential Ability Scales—Second Edition Deptor day and their architecture of the Differential Ability Scales—Second Edition Deptor day and their architecture of the Clinical Ability Scales—Second Edition Deptor day and their architecture of the Clinical Ability Scales—Second Edition Deptor day and their children and adolescents. Scales are supported to the Clinical Ability Scales—Second Edition Deptor day and their children and adolescents. Scales are supported by the Clinical Ability Scales—Second Edition Deptor day and their children and adolescents. School Psychology Charles are supported by the Clinical Ability Scales—Second Edition Deptor day and their children and adolescents. School Psychology David Psychological Assessment, 28, 1495–148. https://doi.org/10.1037/psychological-Assessment, 28, 1495–148. https://doi.o

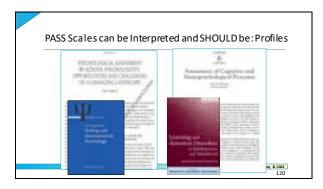
Watkins, M. W., Dombrowski, S.C., & Cankez, G. L. (2017, October), Raidoliky and factorial validity of the Canadian Wechsler hte litigence Soile for Children-Hifth Biblion. International Journal of School and Biscotonal Psychology PASS Theory & CASS

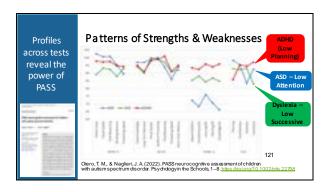


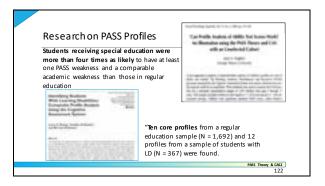


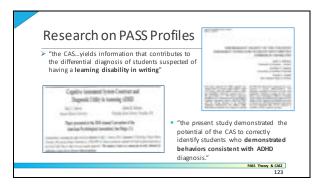
- ➤ Given that PASS scales CAN be interpreted it is important to know
- if these scales yield PROFILES that can be used in a Pattern of Strengths and Weaknesses approach to eligibility determination AND
- do PASS scores relate to achievement more than traditional intelligence tests?

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Intelligence Tests and Prediction

- Intelligence tests are one of the primary tools for identifying children with Intellectual disability, specific learning disabilities, and giftedness
- The goal is to determine if there is a cognitive explanation for academic successes or failure
- > The correlations between intelligence and achievement tests and the profiles of scores these tests measure tell us the value these test scores have for both predication and explanation of specific academic success and failure

Correlations: We can do better!

Average correlations between IQ Scales with total achievement scores from Essentials of CAS2 Assessment Naglieri & Otero (2017)







PASS Research

- "The results clearly show that when CAS Full Scale is used it correlates .60 with reading and .61 with mathematics."
- "These correlations are signific antly stronger... than the correlations reported in previous metanalysis for other measures of intelligence (e.g., Peng et al., 2019; Roth et al., 2019...(e.g., WISQ that include tasks (e.g., Arithmetic, Vocabulary)..."
- "if we conceptualize intelligence as ... cognitive processes that are linked to the functional organization of the brain" it leads to signific anly higher relations with a cademic achievement." "and these processes have direct implications for instruction and intervention..."

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- ➤ Tests of general ability are **not** sufficient for assessment of students who may be gifted and have a specific learning disability (SLD), autism, ADHD, etc.
- ➤ Most defensible way to assess for a SLD, for example, is to use the Cognitive Assessment System-Second Edition (CAS2) for the following reasons
- CAS2 measures 'basic psychological processes' the key to uniting the definition of SLD with the method of detecting it, it yields the smallest race difference, yields profiles for special populations, predicts achievement better than any other tests and has implications for instruction

A Study of Gifted Students

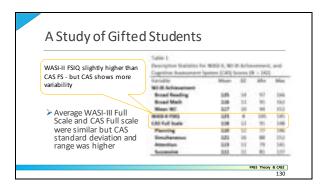
- ➤ N = 142
- Similar numbers of girls and boys in Grade 4, 5 and 6.
- all native speakers of English
- came from families of middle to upper-middle socioeconomic background
- ➤ Identified according to this definition:
- "Giftedness is exceptional potential and/or performance across a wide range
 of abilities in one or more of the following areas: general intellectual, specific
 academic, creative thinking, social, musical, artistic and kinesthetic" (Alberta
 Education, 2012, p. 6).

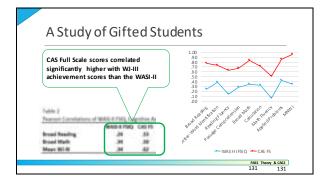
A Study of Gifted Students

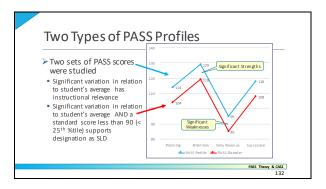
- ➤Tests given
- WASI –II (Vocabulary and Matrix Reasoning)
- Woodcock-Johnson III (WJ-III; Woodcock, McGrew, & Mathers, 2001) Broad Reading score from: Letter-Word Identification, Reading Fluency, and Passage Comprehension
- Cognitive Assessment System (CAS; Naglieri & Das, 1997) to measure PASS neurocognitive processes

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PASS	Theory	&	CAS





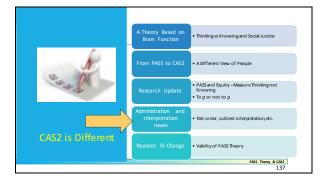


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> 54% of gifted s	tude	nts had	a PASS sm	ore that	was sign	nificant	lv
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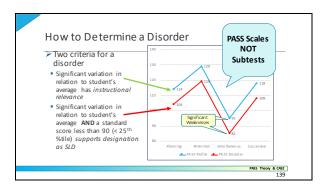


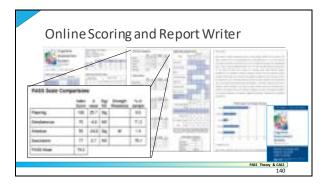
Core Group Activity • QUESTION: • Which research findings was most impactful? • What research questions do you still have? Was research questions do you still have?

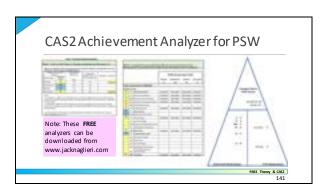


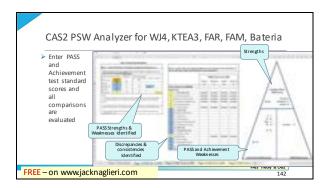
Answering the Question: "Why the student struggles?"

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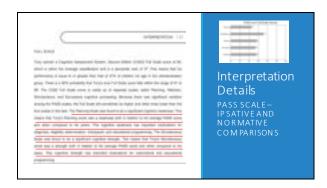


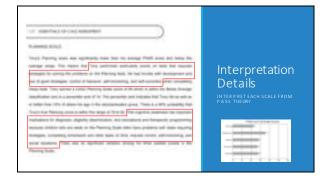
Administration Details

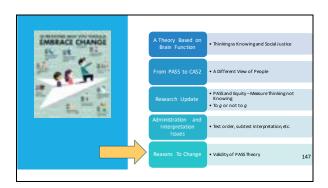
- ➤ Core Battery is the first 2 subtests in each of the PASS scales
- \blacktriangleright Order of administration is IMPORTANT
- Why is Planning first and Successive last?
- ➤ Should you use parts of the CAS2?
- Demonstration, Example, and Provide Help option











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Summary: PASS theory and CAS2 (see Naglieri & Oce10, 2017)

- The PASS scales on the CAS2 measure thinking (i. e. basic psychologic al processing) rather than knowing (e.g., vocabulary, arithmeticetc.) making the test good for assessment of diverse populations and those with limited educational opportunity.
- PASS scores can be easily obtained in 20 minutes (using the 4-subtest CAS2 Brief), 40 minutes (using the 8-subtest Core Battery) or 50 minutes (using the 12-subtest Extended Battery), sored and a narative reports provided using the online program. [Digital CAS2 is in final stages of development.]
- PASS results are easy for teachers, parents and the students themselves to understand because the concepts can be explained in non-technical language.
- The PASS theory and the CAS2 provide a way to bothdefine and assess 'basic psychological processes' so
 that practitioners can obtain scores that are consistent with state and federal IDEA guidelines.
- 5. The PASS scores are strongly correlated to a chievement, show distinct patterns of strengths and weaknesses, are veryuseful for intervention planning.
- The CAS2 in combination with achievement (especially the FAR, FAM and/orFAW) provides examiners with a reliable and defensible Discrepancy Consistency Method to identify students with SLD.
- with a reliable and detension uncrepainty consecuting.

 7. Research has shown that PASS scores have relevance to instruction and intervertion.

 PASS Theory & CASE
 149

WE CAN DO We Must do Better



