Understanding and Utilization of the XBASS Software (including the C-LIM)



CASP Convention 2023 Leticia Zadrozny-Zelaya, M.A., ED.S. NCSP #61147, LEP #4090

About Me

 \Leftrightarrow

I have over ten years of experience as a bilingual school psychologist. I received my Masters and Education Specialist degree in School Psychology at the University of the Pacific. I am a Licensed Educational Psychologist, as well as a Nationally Certified School Psychologist. I currently works for a large district in the Bay Area.





I also serve as the president of the <u>Bay Area Association of School Psychologist</u>, participate on the CASP Board and part of the <u>Bilingual Round Table of Northern California</u>.



I utilize a therapy dog in my practice.

His name is Ziggs.



Learning Objectives



- Interpret and present cross-battery assessment findings efficiently and accurately
- Target analysis to answer specific questions for SLD evaluations
- Analyze empirical cognitive/academic relationships beyond relative magnitude of test scores
- Customize referral-relevant batteries by selecting from the X-BASS database of hundreds of cognitive, achievement, neuropsychological, and speech-language subtests

Disclaimer



 No affiliation or compensation from Wiley or any of the authors

Cattell-Horn-Carroll Theory

The Cattell-Horn-Carroll (CHC) model of cognitive abilities is the empirically based, valid and measurable construct for the analysis of learning abilities. The Cattell-Horn-Carroll (CHC) Theory classifies cognitive skills within seven clusters of abilities that demonstrate moderate to highly significant correlations to academic achievement skills.

The seven CHC areas are defined:



Crystalized knowledge (Gc)*
 Fluid Reasoning (Gf)
 Short-term memory (Gsm)
 Long-term memory (Glr)
 Cognitive Processing Speed (Gs)
 Auditory Process (Gv)





Gc. Comprehension-Knowledge*

The breadth and depth of knowledge including verbal communication and information.

Gsm. Short-Term Memory

The ability to hold information in immediate awareness and then use it within a few seconds, also related to working memory.

Gf. Fluid Reasoning

The ability to reason and solve problems that often involve unfamiliar information or procedures. Fluid reasoning abilities are manifested in the reorganization, transformation, and extrapolation of information.

Glr. Long-Term Retrieval

The ability to store information efficiently and retrieve it later through association.



→ Cattell – Horn – Carroll Theory



Gs. Processing Speed

The speed and efficiency in performing automatic or very simple cognitive tasks.

Gv. Visual-Spatial Thinking

Spatial orientation, the ability to analyze and synthesize visual stimuli, and the ability to hold and manipulate mental images.

Ga. Auditory Processing

The ability to discriminate, analyze, and synthesize auditory stimuli.

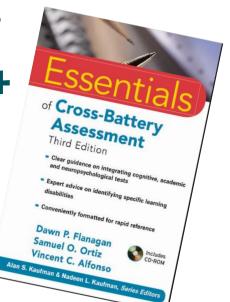
Auditory processing skills are related to phonological awareness.

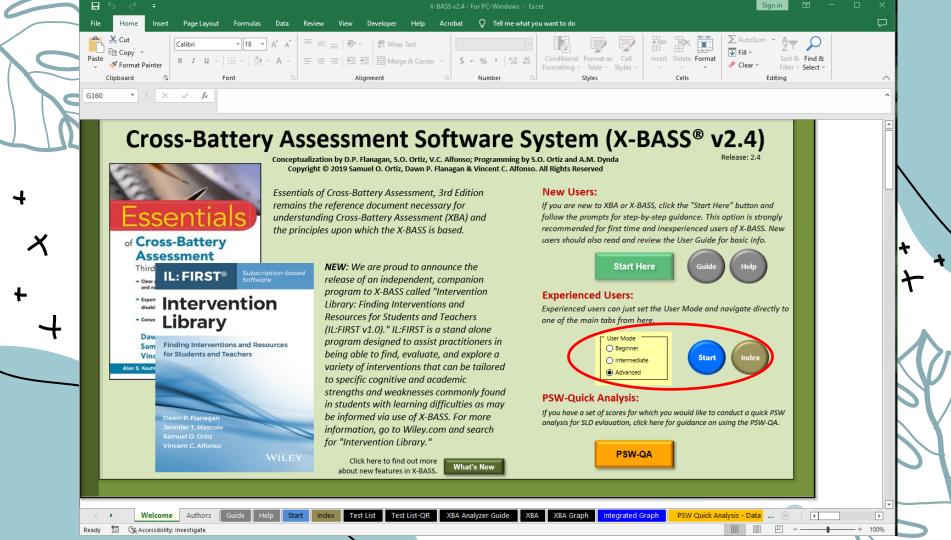


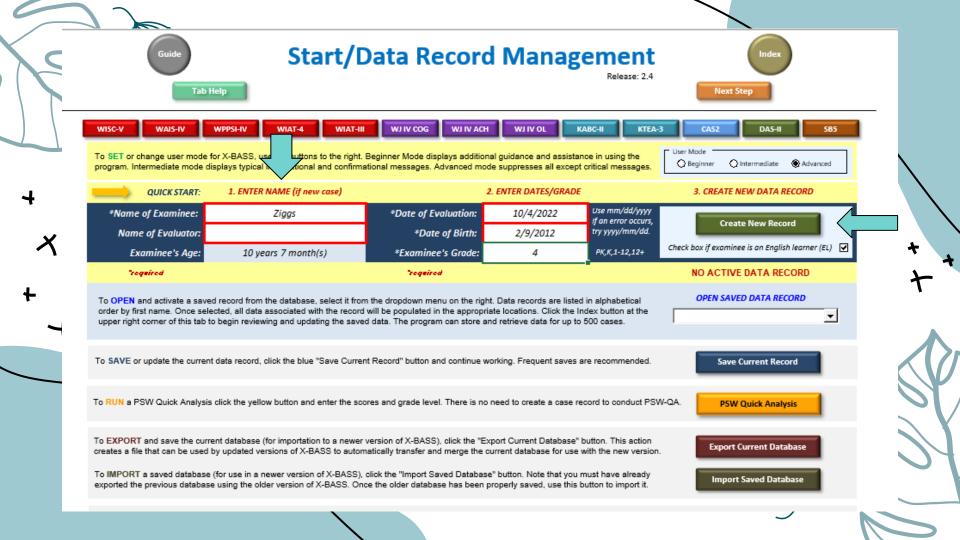


Cross-Battery Assessment Software System (X-BASS)® v2.4

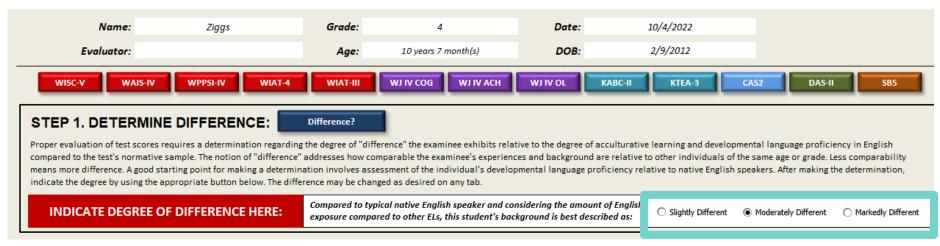








Determine Difference







Determine Difference

SLIGHTLY DIFFERENT

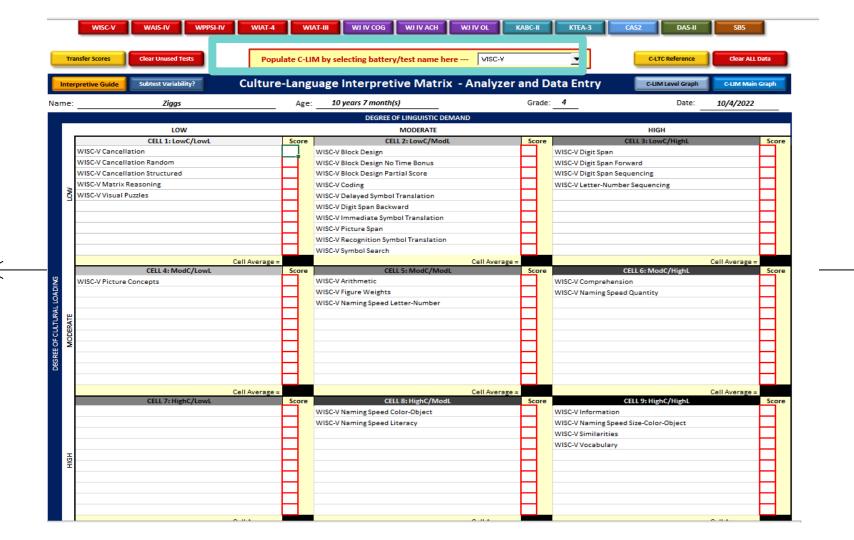
Language proficiency in terms of speaking English is at the advanced to proficient (fluent) level, and English may have long been the primary language. However, knowledge of and familiarity with the native/heritage language is still evident, relatively good language models in English are available in the home, individual no longer needs or never received ESL/ESOL services, has been attending school for about five to seven years with all instruction in English only, is likely third generation or later (was born in U.S. and parents also born in the U.S.), family appears highly acculturated but elements of the heritage culture are still present, and family or developmental history contains no unusual circumstances or significant experiences affecting development or education. Overall, most experiences are similar to mainstream population but subtle cultural and linguistic differences remain.

MODERATELY DIFFERENT (This is the default level used in the program and the most likely degree of difference for most evaluations)

Language proficiency in terms of speaking English is at the intermediate to advanced level and knowledge and use of the native/heritage language is clearly evident, language models in English are not readily available in the home, individual is either close to no longer needing or has recently stopped receiving ESL/ESOL services, has been attending school for at least three years with most instruction in English only or primarily in English, is likely second generation (but first to be born in the U.S), family is not highly acculturated to mainstream and significant elements of the heritage culture are present, family is not acculturated much to the mainstream and nearly all elements of the heritage culture are present. Family or developmental history may contain an unusual circumstance or experience affecting development or education (e.g., recent immigration, significantly impoverished environment, upbringing, and economic status, an interruption in language development, etc.). Overall, few experiences are similar to mainstream population and many significant and obvious cultural and linguistic differences remain.

MARKEDLY DIFFERENT

Language proficiency in terms of speaking English is beginner to intermediate level and use of the native/heritage language is prominent and often primary, no language models in English are available at home, individual is receiving or has recently begun to receive ESL/ESOL services, has been attending school outside the U.S. but it has been intermittent or interrupted or of poor quality and consistency, attendance in school in the U.S. for less than three years with most instruction in English only or primarily in English, is possibly first or second generation (not born in U.S., came to U.S. at a very early age, or is first to be born in the U.S). Family or developmental history may contain one or more extremely unusual circumstances and experiences (e.g., recent immigration, refugee status, significantly impoverished environment, upbringing, and economic status, limited communicative experiences with adults, repeated or significant interruptions in language development, etc.). Overall, no experiences are similar to mainstream population and all significant and obvious cultural and linguistic differences remain present and prominent.



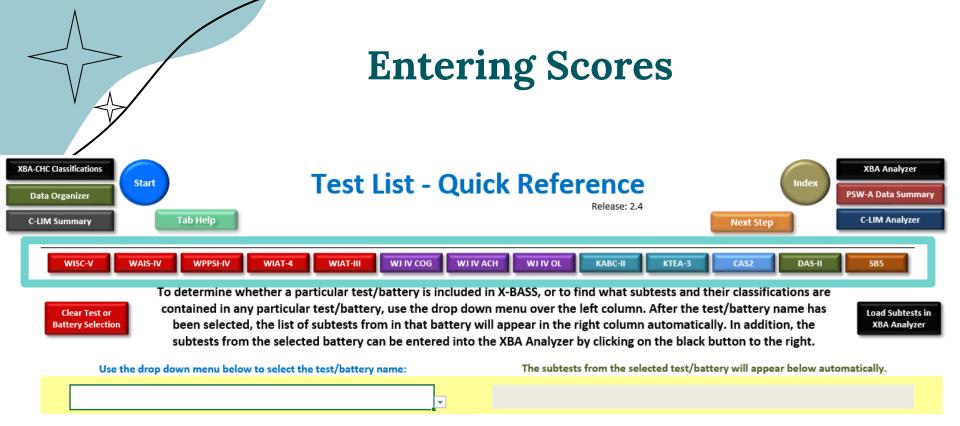


REMEMBER!







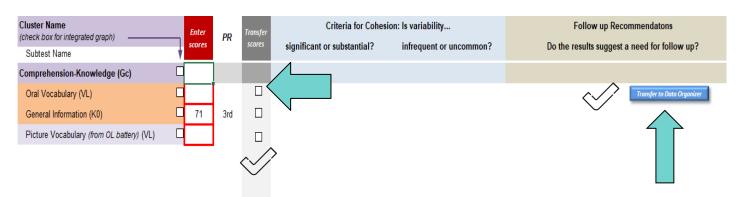








Enter Scores





	\Diamond	1	
Fluid Reasoning (Gf)			
Number Series (RQ)	☐ 78 7th		Transfer to Data Organ
Concept Formation (I)	□ 85 16th		
Analysis-Synthesis (RG)	☐ 92 30th		

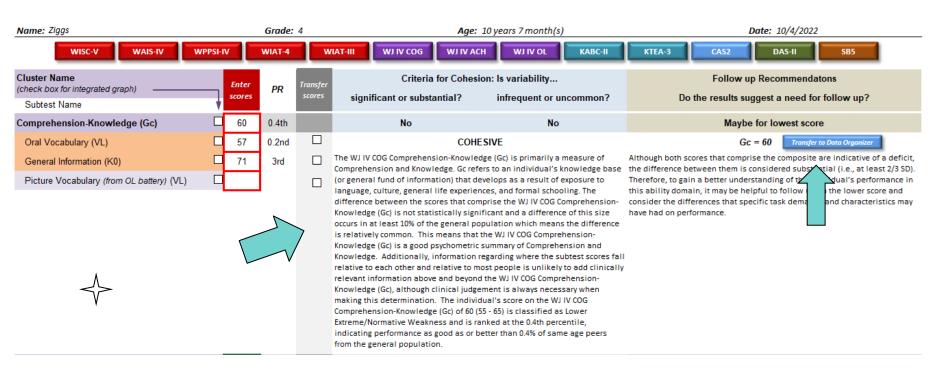


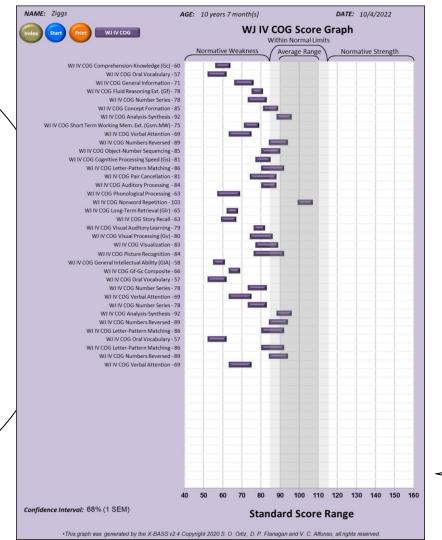




Enter Scores









WJ IV COG Graph

Here you can give view normative weaknesses, within normal limits, or normative strengths scores.









Enter Academic Scores



Name: Ziggs		Grade:	4	Age:	: 10 years 7 month(s)	Date: 10/4/2022			
WISC-V WAIS-IV W	/PPSI-IV	WIAT-4		VIAT-III WJ IV COG WJ IV A	ACH WJ IV OL KABC-II	KTEA-3 CAS2 DAS-II SB5			
Cluster Name (check box for integrated graph)	Enter	PR	Transfer scores		sion: Is variability	Follow up Recommendatons			
Subtest Name	scores		SCORES	significant or substantial?	infrequent or uncommon?	Do the results suggest a need for follow up?			
Broad Reading*	□ 74	4th		Not Applicable	Data not available				
Letter-Word Identification (BRS)	☐ 75	5th	~			*This composite spans 2 or more reading subdomains			
Passage Comprehension (RDC)	☐ 72	3rd	•	Data are not available to evaluate this subtest scores are entered. You may, h	s composite for cohesion when three however, delete the optional score and	transferred to the XBA Analyzer where they can be combined with other			
Sentence Reading Fluency (RDF)	□ 80	9th	✓	evaluate it as a two-subtest composit					
 *Because this composite is comprised of subtests that measure two or more different reading subdomains, it may be difficult to interpret and therefore it is not recommended for transfer to the Data Organizer. 			Î			subtests from the same domain to evaluate possible formation of XBA academic composites.			
Basic Reading Skills (Grw-R)	□ 69	2nd		Yes	No	Maybe for lowest score			
Letter-Word Identification (BRS)	□ 75	5th	~	CLINICAL JUD	GMENT NEEDED	BRS = 69 Transfer to Data Organizer			
Word Attack (BRS;Ga:PC)	□ 62	1st		needed to determine whether the con	ccurs in at least 10% of the general common. Therefore, clinical judgment is	Although both scores that comprise the composite are indicative of a deficit, the difference between them is considered substantial (i.e., at least 2/3 SD). Therefore, to gain a better understanding of the individual's performance in this ability domain, it may be helpful to follow up on the lower score and consider the differences that specific task demands and characteristics may have had on performance.			

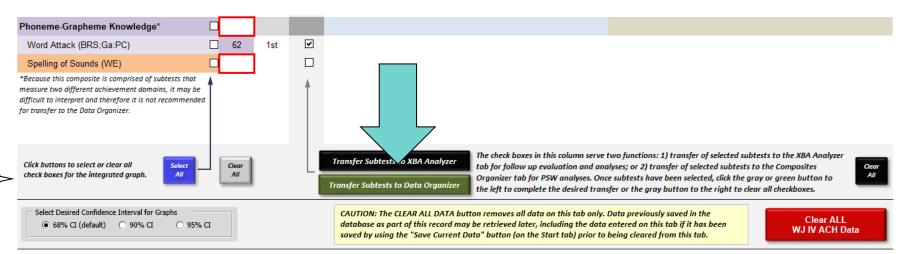






Enter Academic Scores







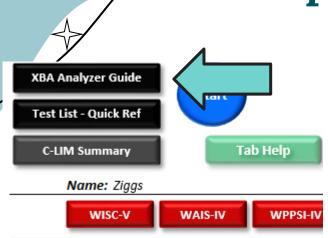
Identifying Strengths and Weaknesses

	-							-	-		
COMPREHENSION-KNO	FLUID REASONING (GF)										
Indicate which composite(s) you wish to use for PSW analyses. No	Indicate which composite(s) you wish to use for PSW analyses. No more than two scores can be selected for this domain.						for this domain.				
WJ IV COG Comprehension-Knowledge (Gc)	60	Test Comp	Clear Score 1			WJ IV CO	G Fluid Reasoning	Ext. (Gf)	78	Test Comp	Clear Score 1
			Clear Score 2						[Clear Score 2
			Clear Score 3						[Clear Score 3
LONG-TERM STORAGE AN	D RETRIE	VAL (GIr)					SHORT-TE	RM MEM	ORY (Gsm)	
Indicate which composite(s) you wish to use for PSW analyses. No	more than	two scores can be s	elected for this domain.		Indicate which composite(s) you wish to use for PSW analyses. No more than two scores can be selected for this domain.						for this domain.
WJ IV COG Long-Term Retrieval (GIr)	65	Test Comp	Clear Score 1		WJ IV COG	Short-Term W	orking Mem. Ext. (Gs	sm:MW)	75 [Test Comp	Clear Score 1
			Clear Score 2						[Clear Score 2
			Clear Score 3						[Clear Score 3
VISUAL PROCES	SING (Gv)					AUDITORY	PROCES	SSING (Ga)	
Indicate which composite(s) you wish to use for PSW analyses. No	o more than	two scores can be s	elected for this domain.		Indicate which composite(s) you wish to use for PSW analyses. No more than two scores can be selected for this domain.						
WJ IV COG Visual Processing (Gv)	80	Test Comp	Clear Score 1			WJ IV CO	OG Auditory Processi	ng (Ga)	84	Test Comp	Clear Score 1
			Clear Score 2						[Clear Score 2
			Cl 2								Claur Santa 2
Data Organizer Data Entry - Other	Data Or	ganizer Graph	S&W Indicator	PSW	/-A Data Summary	g-Value	PSW Analyzer	Notes o	on PSW-A	Selecting Comps	Exclusionary Fact

Notice!

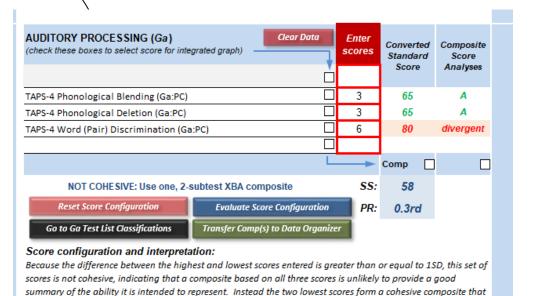


COMPREHENSION-KNO	WLEDG	Ensure va	alidation of Gc score	×	NI		
e which composite(s) you wish to use for PSW analyses. No	more than						
WJ IV COG Comprehension-Knowledge (Gc)	60	Test Comp	Clear Sco		Because this Gc score is below the selected/default range typical for English learners it should be further validated via		
			Clear Sco		native language testing or evaluation before using it in PSW analysis. However, if this score was obtained using the Ortiz PVAT using EL norms, it does not require any follow up.		
			Clear Sco		rvar using Le norms, it does not require any ronow up.		
LONG-TERM STORAGE AND) RETRII		OK]	M		
a which composite/c) you wish to use for DCM analyses. No	mara than	two coorse can be c	alacted for this day	asia	Indiana which accessis follows with a configuration		NI -



For additional testing, you can enter data in the XBA Analyzer Guide. This button is found at the top of every page.





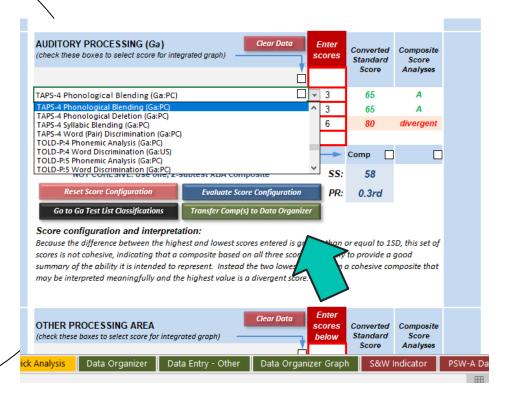
may be interpreted meaningfully and the highest value is a divergent score.

Auditory Processing

Because the scores were not cohesive on the WJ-IV Cog, follow up testing on the TAPS-4 was done.



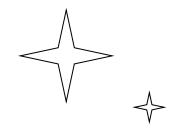


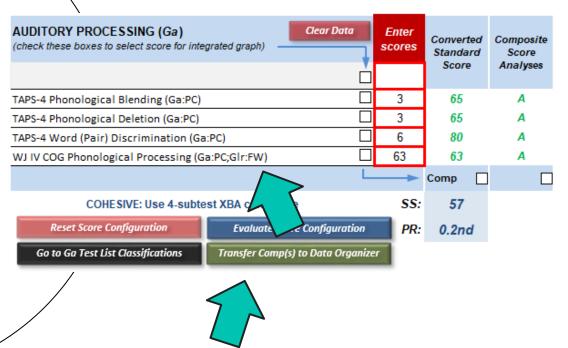


Auditory Processing

Drop down menu is available. This can also give you ideas of what further testing you may need to do in that area.



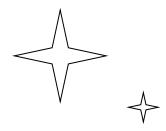


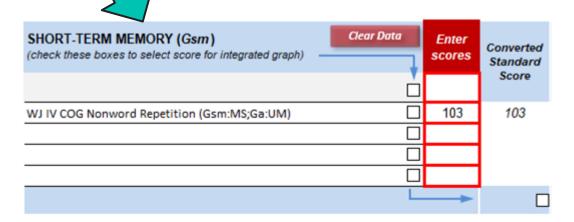


Auditory Processing

If you go back and only check individual subtests in the WJ-IV Cog tab, you can transfer that individual score to the XBA, to determine if that subtest is cohesive with new subtests.







Evaluate Score Configuration

Transfer Comp(s) to Data Organizer

Score configuration and interpretation:

Reset Score Configuration

Go to Gsm Test List Classifications

Auditory Processing

Notice that Nonword Repetition loads more in short term memory and not auditory processing.

Break

Questions?



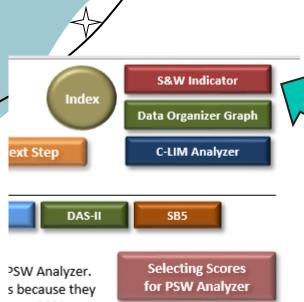
Strengths and Weaknesses

According to the XBASS program: Indicate whether the CHC domains (highlighted in blue) and neuropsychological domains (highlighted in beige) represent strengths or weaknesses for the individual. Determination of strengths and weaknesses is a judgment that is made by the evaluator based on what is known about the examinee. In general, ability and processing strengths facilitate learning and academic performance, whereas weaknesses inhibit learning and academic performance.

Typically, scores that fall in the average range or higher likely facilitate learning and scores that fall below average or lower likely inhibit learning.

Also, indicate whether the academic areas (highlighted in purple) represent strengths or weaknesses for the individual. Achievement standard scores that are about 90 or higher are considered strengths and scores that fall below 90 are considered weaknesses.





At the top of the page (or bottom of the page) you can move to identifying strengths and weaknesses.

PSW Analyzer. s because they would like to pad ability (e.g.,

Select ALL Checkboxes



Start

XBA Analyzer

Data Entry - Other

S&W Indicator

PSW-A Data Summary

PSW Analyzer

Strengths and Weaknesses

		-				•				
PROCESSING SPEED (G	s)			OTHER PROCESSING AREA						
WJ IV COG Cognitive Processing Speed (Gs:P) Test Comp	81	strength	weakness			strength	weakness			
		strength	weakness			strength	weakness			
BASIC READING SKILLS (E	BRS)			READING COMPREHENSION	(RDC)					
WJ IV ACH Basic Reading Skills (BRS) Test Comp	69	strength	weakness	WJ IV ACH Passage Comprehension (RDC;Grw-R:RC) Subtest	72	strength	weakness			
WJ IV ACH Letter-Word Identification (BRS;Grw-R:RD) Subtest	75	strength	weakness			strength	weakness			
WJ IV ACH Word Attack (BRS;Grw-R:RD) Subtest	62	strength	weakness			strength	weakness			
READING FLUENCY (RDI	READING FLUENCY (RDF)					WRITTEN EXPRESSION (WE)				
WJ IV ACH Reading Fluency (RDF) Test Comp	WJ IV ACH Reading Fluency (RDF) Test Comp 77 strength • weakness		WJ IV ACH Broad Written Language (WE) Test Comp	71	strength	weakness				
		strength	weakness	WJ IV ACH Written Expression (WE) Test Comp	66	strength	weakness			
		strength	○ weakness	WJ IV ACH Spelling (WE;Grw-W:SG) Subtest	67	strength	• weakness			
MATH CALCULATION (M	C)			MATH PROBLEM SOLVING (MPS)						
WJ IV ACH Broad Mathematics (MC) Test Comp	76	strength	• weakness	WJ IV ACH Applied Problems (MPS;Gq:A3;Gf:RQ) Subtest	71	strength	weakness			
WJ IV ACH Math Calculation Skills (MC) Test Comp	80	strength	• weakness			strength	weakness			
WJ IV ACH Calculation (MC;Gq:A3) Subtest	87	strength	weakness			strength	weakness			
ORAL EXPRESSION (OF)			LISTENING COMPREHENSION (LC)						
		strength	weakness			strength	weakness			

You can see here that the student does not have any strengths. You can determine relative strengths for your report, but that will have to be explained properly to parents and staff. They may have a relative strength in processing speed, but this is still considered below average compared to their peers.

V /					
Name: Ziggs	Grade:	4	Date:	10/4/2022	Age: 10 years 7 month(s)
WISC-V	WAIS-IV WIAT-4 WIAT-III WJ IV	/ coe wı	IV ACH WJ IV OL	KABC-II KTEA-3	CAS2 DAS-II SB5
Areas of strength below form the Facilitating Cognitive Composite (FCC)	CHC ABILITY DOMAINS	SCORE	Areas of weakness below form the Inhibiting Cognitive Composite (ICC).	the DD/C model) and those designated a left oval in the DD/C model). When a dom	are used for computation of the g-Value and FCC (top oval in as weaknesses are used for computation of the ICC (bottom hain contains a strength and a weakness, the strength is used and the weakness is used in the calculation of the ICC.
	WJ IV COG Comprehension-Knowledge (Gc) Test Comp	60	W Gc*	g-Value: The g-Value reflects overall cognitive abilithe CHC abilities judged by the evaluator to the characteristics.	to be Results
	WJ IV COG Fluid Reasoning Ext. (Gf) Test Comp	78	W Gf	strengths. The g-Value is interpreted acco likelihood that an individual possesses at leaverage overall cognitive ability.	east Click to re-display
	WJ IV COG Long-Term Retrieval (GIr) Test Comp	65	W Glr	2a. Facilitating Cognitive Composi Represents an individual's overall gen (based on strengths) and is used to ev	eral ability 0 the current PSW
	WJ IV COG Short-Term Working Mem. Ext. (Gsm:MW) Test Comp	75	W Gsm	differences relative to a specific of pat cognitive and academic weaknesses.	data are changed.
	WJ IV COG Visual Processing (Gv) Test Comp	80	W Gv	2b. Alternative Cognitive Compos You may enter an alternative value if desir the FCC is not believed to be the best estir general ability.	red or when
	Auditory Processing (Ga) Comp	57	W Ga	3. Inhibiting Cognitive Composite Represents an aggregate of an individual'	s (ICC)
	WJ IV COG Cognitive Processing Speed (Gs:P) Test Comp	81	W Gs	weaknesses and is used to evaluate consi the relationship between cognitive and a weaknesses. If there is only one cognitive the ICC is not calculated.	cademic
O Score difference will be co	onsidered rare/infrequent when it occurs 5% of the time (very strict value, best for multiple	e comparisons or	tests with low reliability)	4. Rarity/Frequency of Difference	e - FCC/ACC to Cognitive Weakness
Score difference will be co	onsidered rare/infrequent when it occurs 10% of the time (default value, best for standard	4. Nathry/Heapterly of interestine - To cyclic to Organize veralliess. Select base rate level for determining if the size of a difference occurs rarely or infrequently. The default value is 10%. A more conservative or liberal value may be selected. If multiple comparisons are made, a stricter value may be appropriate.			
Score difference will be co	onsidered rare/infrequent when it occurs 15% of the time (very liberal value, increases fals				







Grade: 4 Date: 10/4/2022 Age: 10 years 7 month(s) Name: Ziggs WISC-V WAIS-IV WPPSI-IV WIAT-4 WIAT-III WJ IV COG WJ IV ACH WJ IV OL KABC-II KTEA-3 DAS-II Areas of strength Areas of weakness CHC Composites designated as strengths are used for computation of the g-Value and FCC (top oval in below form the below form the the DD/C model) and those designated as weaknesses are used for computation of the ICC (bottom SCORE CHC ABILITY DOMAINS Facilitating Cognitive Inhibiting Cognitive left oval in the DD/C model). When a domain contains a strength and a weakness, the strength is used Composite (FCC) Composite (ICC). in calculation of the g-Value/FCC and the weakness is used in the calculation of the ICC. WJ IV COG Comprehension-Knowledge (Gc) Test Comp 60 1. g-Value: Gc* 0.10The a-Value reflects overall cognitive ability based on Display the CHC abilities judged by the evaluator to be Results strengths. The g-Value is interpreted according to the Again WJ IV COG Fluid Reasoning Ext. (Gf) Test Comp 78 likelihood that an individual possesses at least Gf average overall cognitive ability. Click to re-display pop up message WJ IV COG Long-Term Retrieval (GIr) Test Comp 65 2a. Facilitating Cognitive Composite (FCC) regarding results of Glr Represents an individual's overall general ability the current PSW (based on strengths) and is used to evaluate analysis or when differences relative to a specific of pattern of data are changed. WJ IV COG Short-Term Working Mem. Ext. (Gsm:MW) Test Comp 75 cognitive and academic weaknesses. Gsm User Mode 2b. Alternative Cognitive Composite (ACC) WJ IV COG Visual Processing (Gv) Test Comp 80 Beginner You may enter an alternative value if desired or when Gv Intermediate the FCC is not believed to be the best estimate of general ability. Advanced 57 Auditory Processing (Ga) Comp Ga 3. Inhibiting Cognitive Composite (ICC) Represents an aggregate of an individual's overall ICC will be used weaknesses and is used to evaluate consistency and for PSW analysis WJ IV COG Cognitive Processing Speed (Gs:P) Test Comp 81 the relationship between cognitive and academic weaknesses. If there is only one cognitive weakness. the ICC is not calculated. O Score difference will be considered rare/infrequent when it occurs 5% of the time (very strict value, best for multiple comparisons or tests with low reliability) 4. Rarity/Frequency of Difference - FCC/ACC to Cognitive Weakness Select base rate level for determining if the size of a difference occurs rarely or infrequently. The Score difference will be considered rare/infrequent when it occurs 10% of the time (default value, best for standard analyses with composites and reliable tests) default value is 10%. A more conservative or liberal value may be selected. If multiple comparisons O Score difference will be considered rare/infrequent when it occurs 15% of the time (very liberal value, increases false positive rate--not recommended) are made, a stricter value may be appropriate.

g-Value and FCC



g-Value

The *g*-Value reflects overall cognitive ability based on the CHC abilities judged by the evaluator to be strengths. The *g*-Value is interpreted according to the *likelihood* that an individual possesses at least average

The individual using the following scale:

- < .50 = average overall ability is unlikely; .
- 51 .59 = more information needed;
- > .60 = average overall ability is very likely

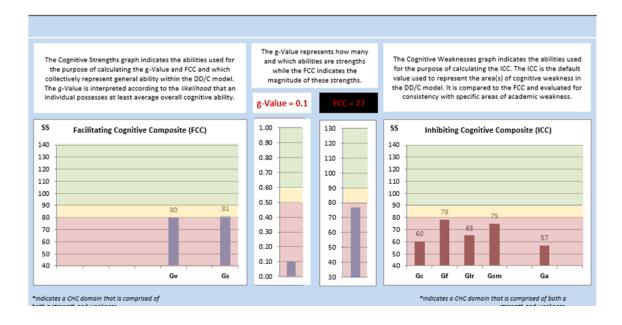
Facilitating Cognitive Composite (FCC)

FCC Represents an individual's overall general ability (based on strengths) and is used to evaluate differences relative to a specific of pattern of cognitive and academic weaknesses.

The g-Value represents how many and which abilities are strengths while the FCC indicates the magnitude of these strengths.

g-Value and FCC





Based on data entered in prior tabs, a g - Value is computed and displayed here.
Users are advised to refer to the PSW-A
Notes tab in X-BASS and to the relevant
text in Essentials of Cross-Battery
Assessment, Third Edition for a detailed
discussion regarding the full meaning and
proper use and interpretation of the g Value.

The g-Value reflects overall cognitive ability based on the broad CHC abilities judged by the evaluator to be strengths for the individual using the following scale:





\diamondsuit

Demo

Case Study: Nemo



2nd grade student, Receives Speech Services





Overview of PSW Analysis with X-BASS

Use of this program should be guided by a thorough understanding of the Cross-Battery Assessment (XBA) approach and the Dual Discrepancy/Consistency (DD/C) operational definition of specific learning disability (SLD) as described in Essentials of Cross-Battery Assessment, 3rd Edition (Flanagan, Ortiz, & Alfonso, 2013).

To conduct a PSW analysis in a manner consistent with the DD/C model, at least seven CHC areas of cognitive functioning must be assessed (i.e., Gc, Gf, Glr, Gsm, Gv, Ga, and Gs). In addition to these seven areas, common neuropsychological domains that are often assessment in cases of suspected SLD include orthographic processing (OP), speed of lexical access (LA), cognitive efficiency (CE), and executive functions (EF). If any of these neuropsychological domains are evaluated, they may also be included in the PSW analysis.



Overview of PSW Analysis with X-BASS

In addition to CHC (and neuropsychological) domains, at least one area of academic performance must have been evaluated for inclusion in the PSW analysis. The software organizes subtests from achievement batteries into eight areas of achievement consistent with those listed in IDEA.

These areas are:

- Basic Reading Skills (BRS),
- Reading Fluency (RF),
- Reading Comprehension (RC),
- Math Calculation (MC),
- Math Problem Solving (MPS),
- Written Expression (WE),
- Listening Comprehension (LC),
- Oral Expression (OE).



4. Rarity/Frequency of Difference - FCC/ACC to Cognitive Weakness

stricter value may be appropriate.

Select base rate level for determining if the size of a difference occurs rarely or infrequently. The default

value is 10%. A more conservative or liberal value may be selected. If multiple comparisons are made, a

Areas of stree form the Fa Cognitive Co (FCC	omposite	CHC ABILITY DOMAINS	SCORE	Areas of weakness below form the Inhibiting Cognitive Composite (ICC).	CHC Composites designated as strengths are used for computation of the g-Value and FCC (top oval in th DD/C model) and those designated as weaknesses are used for computation of the ICC (bottom left oval the DD/C model). When a domain contains a strength and a weakness, the strength is used in calculation of the g-Value/FCC and the weakness is used in the calculation of the ICC.				
Gc	s	WJ IV COG Comprehension-Knowledge (Gc) Test Comp	74		g-Value: The g-Value reflects overall cognitive ability based on the CHC abilities judged by the evaluator to be	0.95 Display Results			
Gf	s	WJ IV COG Fluid Reasoning (Gf) Test Comp	93		 strengths. The g-Value is interpreted according to the likelihood that an individual possesses at least average overall cognitive ability. 	Again Click to re-display p			
Glr	s	WJ IV COG Long-Term Retrieval (GIr) Test Comp	90		2a. Facilitating Cognitive Composite (FCC) Represents an individual's overall general ability (based on strengths) and is used to evaluate	up message regardi results of the curre PSW analysis or wh data are changed			
Gsm	S	WJ IV COG Short-Term Working Memory (Gsm:MW) Test Comp	90		differences relative to a specific of pattern of cognitive and academic weaknesses.	User Mode			
Gv	s	WJ IV COG Visual Processing (Gv) Test Comp	102		2b. Alternative Cognitive Composite (ACC) You may enter an alternative value if desired or when the FCC is not believed to be the best estimate of general ability.	○ Beginner ○ Intermediate ② Advanced			
		WJ IV COG Auditory Processing (Ga) Test Comp	75	W Ga	3. Inhibiting Cognitive Composite (ICC) Represents an aggregate of an individual's overall	ICC will be used			
Gs	S	WJ IV COG Cognitive Processing Speed (Gs:P) Test Comp	99		weaknesses and is used to evaluate consistency and the relationship between cognitive and academic weaknesses. If there is only one cognitive weakness, the ICC is not calculated.	for PSW analysis			

C Score difference will be considered rare/infrequent when it occurs 5% of the time (very strict value, best for multiple comparisons or tests with low reliability)

C Score difference will be considered rare/infrequent when it occurs 15% of the time (very liberal value, increases false positive rate--not recommended)

* Score difference will be considered rare/infrequent when it occurs 10% of the time (default value, best for standard analyses with composites and reliable tests)



Areas of strength below are likely consistent with the individual's overall general ability.	ACHIEVEMENT/SLD DOMAINS	SCORE	below ma academic	weakness y be used as deficits in the model.	Composites or subtest scores designated as weaknesses may PSW-A analyses (bottom right oval in the DD/C model). Only one relative to a cognitive weakness and general ability, but any are patterns of strengths and weaknesses on t
	WJ IV ACH Basic Reading Skills (BRS) Test Comp	73			ADVANCED PSW ANAL
	WJ IV ACH Letter-Word Identification (BRS;Grw-R:RD) Subtest	66	w	BRS	Selecting Specific Cognitive Weakn
					CAUTION: This feature is intended for advanced use individual cognitive weaknesses in calculating the
	WJ IV ACH Passage Comprehension (RDC;Grw-R:RC) Subtest	70			comprised of all indicated weaknesses (default). T
			W	RDC	where an individual has a weakness in an area (e., relationship to an academic area (e.g., basic math least two or more other weaknesses that are (e.g.,
					weaknesses need not be selected here as they can
	WJ IV ACH Sentence Reading Fluency (RDF;Grw-R;RS) Subtest	69	w	RDF	from the drop down menu of the bottom right oval of are certain of how to use this feature properly, it is
					check any of the boxes and use the default values a PSW Analyzer. To use an academic-specific ICC, chec
	WJ IV ACH Written Language (WE) Test Comp	81			Gc 🗆
	WJ IV ACH Written Expression (WE) Test Comp	74	w	WE	
					Gf □
	WJ IV ACH Broad Mathematics (MC) Test Comp	83			
MC S	WJ IV ACH Math Calculation Skills (MC) Test Comp	88	w	MC	Gir □
					Gsm □
MPS					0 5
					Gv □
OE					Ga ☑ WJ IV COG Auditory Processin
02					Gu E
					Gs □
LC					
					Academic-specific ICC VALUE =

ores designated as weaknesses may be used to represent academic deficits in tht oval in the DD/C model). Only one academic weakness at a time is evaluated ness and general ability, but any area may be selected in turn to examine other ns of strengths and weaknesses on the PSW Analyzer tab.

ADVANCED PSW ANALYSIS

ng Specific Cognitive Weaknesses for the ICC

is intended for advanced users only. It allows for selection of eaknesses in calculating the ICC rather than having it be ated weaknesses (default). This may be helpful in cases has a weakness in an area (e.g., Ga) that does not have a ademic area (e.g., basic math computation) but does have at er weaknesses that are (e.g., Gs and Gwm). Individual cognitive be selected here as they can already be selected individually enu of the bottom right oval of the PSW Analyzer. Unless you use this feature properly, it is recommended that you do not and use the default values and menu options provided in the

lyzer.	. To use a	an academic-specific ICC, check the box below next to the ne
Эc		
Gf		
Gir		
sm		
GV		
Зa	v	WJ IV COG Auditory Processing (Ga) Test Comp - 75
3s		

Check here to use this value





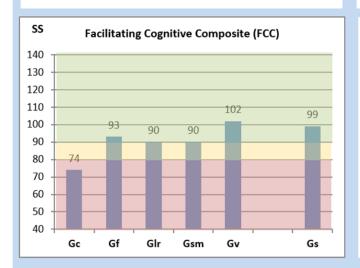
The Cognitive Strengths graph indicates the abilities used for the purpose of calculating the g-Value and FCC and which collectively represent general ability within the DD/C model. The g-Value is interpreted according to the *likelihood* that an individual possesses at least average overall cognitive ability.

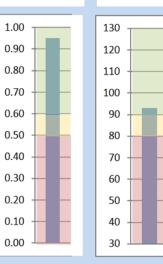
The g-Value represents how many and which abilities are strengths while the FCC indicates the magnitude of these strengths.

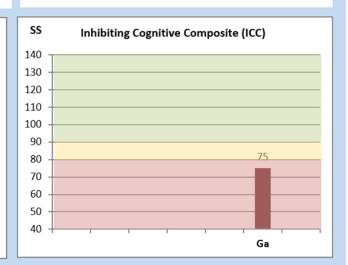
g-Value = 0.95



The Cognitive Weaknesses graph indicates the abilities used for the purpose of calculating the ICC. The ICC is the default value used to represent the area(s) of cognitive weakness in the DD/C model. It is compared to the FCC and evaluated for consistency with specific areas of academic weakness.









PSW Supports SLD: YES

Based on the data selected for use in the PSW Analyzer, specific criteria for establishing a PSW consistent with SLD have been met. However, this pattern of results does not automatically confirm the presence of SLD. This pattern must be considered within the context of the entire case history of the individual. In addition, other data gathered through multiple methods need to be considered (e.g., information regarding exclusionary factors) when identifying or diagnosing SLD (see chapter 4 in Essentials of Cross-Battery Assessment, 3rd Ed.).

Click on PSW
Analyzer tab down at the bottom of the screen

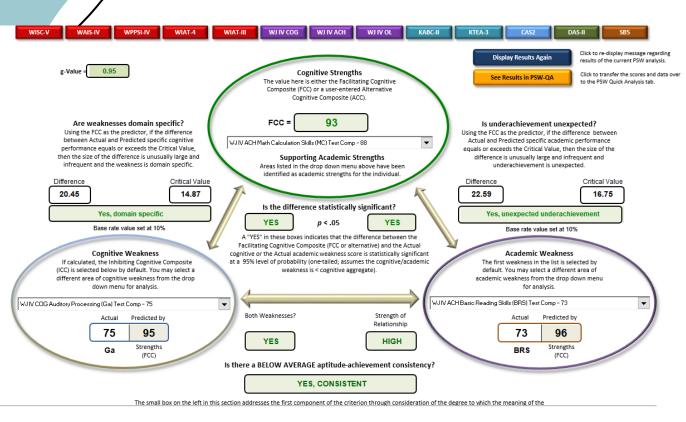
This will take to the PSW page and a popup occurs letting you know if PSW supports SLD

OK

FCC = | 93







You can see this supports the dual discrepancy model.

He exhibits a processing deficit and academic deficit and they correlate.

Thanks!







