Evidence-b	ased A	tnemssess	of English	Learners

Contemporary PSW evaluation for SLD with X-BASS, C-LIM, and the Ortiz PVAT.

		X-BA	ASS »	
Texas Educational Diagnostician's Association  Waco, TX December 9, 2019		Softwa	Battery As re System	
	• XBA		Carr.	-
	Intervention Library: FIRST		Alfonso	
	ACCESS CARD		1	
	Finding Interventions and Re Students and Yeachers (ILFR)			
Samuel O. Ortiz, Ph.D. St. John's University	Dies & Clanton			WILEY
	Semiler C. Haccolo Semiler C. Cirtiz Viscont C. Affords			

#### Test Score Validity and Defensible Interpretation Requires "True Peer" Comparison

Example of Potential Construct Invalidity:

"Assemble these blocks together in the correct manner so they appear identical to this illustration."



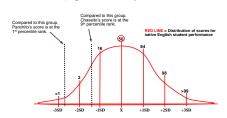
A test designed to measure visual processing (Gv) in ELs must avoid overreliance on language ability (Gc) or else measurement of visual processing may be confounded with language ability. Example of Potential Interpretive Invalidity:

"After putting a blue block on top of a purple one, put the green block on the blue one."



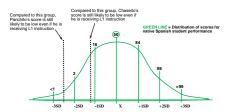
A test designed to measure English language ability (GC) is valid for EL's ability in English, but poor performance cannot be ascribed to a potential disability unless developmental differences in English have been controlled.

# Diagnostic Question: Does Chaseito's or Panchito's rate of progress suggest cultural/linguistic difference or possible disorder?



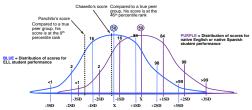
For the purposes of determining whether a disability exists, use of a monolingual English speaking comparison group is discriminatory and makes it appear incorrectly that both students might have some type of disability.

# Diagnostic Question: Does Chaseito's or Panchito's rate of progress suggest cultural/linguistic difference or possible disorder?



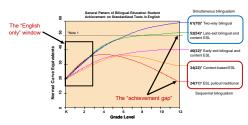
Similarly, use of a monolingual, native-language speaking group remains discriminatory because neither student is monolingual anymore (even when receiving native language instruction) and it continues to make it appear incorrectly that both Chaselot and Panchito have some type of disability.

# Diagnostic Question: Does Chaseito's or Panchito's rate of progress suggest cultural/linguistic difference or possible disorder?



Whether conducted through RTI/MSS or testing, only use of a "true peer" comparison group provides the basis for making non-discriminatory diagnostic decisions as long as there is control for developmental language differences between English learners and chree English learners.

#### Academic Test Score Validity Requires "True Peer" Comparison



Note 1: Average performance of native-English speakers making one year's progress in each grade. Scores in perentheses are percentile tanks convenied from NC depted from: Thomas, W. & Coller, V. (1997). Language Minority Student Achievement and Program Effectivenes: Washington DC: National Cleaninghouse for Billingual Education.

Test Score Validity and Defensible Interpretation Requires "True Peer" Comparison	
For native English speakers, growth of language-related abilities are tied closely to age because the process of learning a language begins at birth and is fostered by	
formal schooling. Thus, age-based norms effectively control for variation in development and provide an appropriate basis for comparison. However, this is not true for English learners who may begin learning English at various points after birth	
and who may receive vastly different types of formal education from each other.  Development Varies by Exposure to English – Not relative dominance	
"It is unlikely that a second-grade English learner at the early intermediate phase of	
language development is going to have the same achievement profile as the native English- speeking classmate sitting next to her. The norms established to measure fluency, for instance, are not able to account for the <u>Impauge development afferences</u> between the two	
girls. A second analysis of the student's progress compared to linguistically similar students is warranted." (p. 40)  - Fisher & Frey, 2012	
- roller a riey, 2012	
Processes and Procedures for Addressing Test Score Validity	
In what manner exactly, is evidence-based, nondiscriminatory assessment	
conducted and to what extent is there any research to support the use of any of the following methods as being capable of establishing sufficient test score validity?	
Modified Methods of Evaluation	
Working around the language by modifying/altering the assessment	
Nonverbal Methods of Evaluation	
<ul> <li>Avoiding the language by evaluating areas unrelated to language</li> </ul>	
Dominant Language Evaluation	
Choosing a language based simply on relative proficiency	
urrent Approaches Fail to Establish Test Score Validity	
Cayaladdin for morphic formation of the control of	
Modified or Altered X V V X X X X X X	

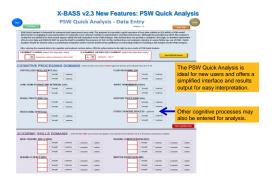
The validity of an interpretation regarding disability requires an unbiased standard for comparison.	
Whatever method or approach may be employed in evaluation of EL's, the fundamental obstacle to nondiscriminatory interpretation rests on the degree to which the examiner is able to defend claims of test score (construct and interpretive) validity that is being used to support diagnostic conclusions. This idea is captured by and commonly referred to as a question of:	
"DIFFERENCE vs. DISORDER?"	
Simply absolving oneself from responsibility of establishing test score validity, for example via wording such as, "all scores should be interpreted with extreme caution" does not in any way provide a defensible argument regarding the validity of obtained test results and does not permit valid diagnostic interences or conclusions to be drawn from them.	
Test score validity must be evaluated or established via use of a "true peer" comparison standard and the only manner in which to accomplish this task is with evidence and data.	
The Culture Language Interventing Matrix (C 184)	
The Culture-Language Interpretive Matrix (C-LIM)	
Addressing test score validity for ELLs  Translation of Research into Practice	
<ol> <li>The use of various traditional methods for evaluating ELLs, including testing in the dominant language, modified testing, nonwetabl testing, or testing in the native language do not ensure valid results and provide no mechanism for determining whether results are valid, let alone what they might mean or signify.</li> <li>The pattern of ELL test performance, when tests are administered in English, has been</li> </ol>	
estabilished by research and is predictable and based on the examinee's degree of English language proficiency and acculturative experiences/opportunities as compared to native English speakers.  3. The use of research on ELL test performance, when tests are administered in English,	
provides the only current method for applying evidence to determine the extent to which obtained results are likely utilid (a minimal or only contributory influence of cultural and <u>linguistic factors</u> ), possibly valid (minimal or contributory influence of cultural and linguistic factors but which requires additional evidence from native language evaluation), or likely inimal (a primary influence of cultural and linguistic factors).	
4. The principles of ELL test performance as established by research are the foundations upon which the C-LIM is based and serve as a de facto norm sample for the purposes of comparing test results of individual ELLs to the performance of a group of average ELLs with a specific focus on the attenuating influence of cultural and linguistic factors.	
The Culture-Language Interpretive Matrix (C-LIM)  GENERAL RULES AND GUIDANCE FOR EVALUATION OF TEST SCORE VALUDITY	
erer are two basic criteria that, when both are met, provide evidence to suggest that test performance flects the primary influence of cultural and linguistic factors and not actual ability, or lack thereof. These teria are:	
1. There exists a general, overall pottern of decline in the scores from left to right and diagonally across the marks where performance is highest on the less linguistically demanding/culturally loaded tests (low/low cells) and performance is lowest on the more linguistically demanding/culturally loaded tests (low/low/lockly, and; only if both only if b	
The magnitude of the aggregate test scores across the matrix for all cells fall within or above the expected range of difference (shaded are around the line) determined to be most representative of the examinee's background and development relative to the sample on whom the test was normed.	
then both criteria are observed, it may be concluded that the test scores are likely to have been fluenced primarily by the presence of cultural/linguistic variables and therefore are not likely to be valid d should not be interpreted. If either criterion is not met, the results can be assumed to be VALID.	

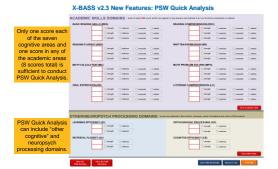
Research Foundations of the C-LIM Additional Issues in Evaluation of Test Score Patterns		
Evaluation of test score validity, particularly in cases where results are "possibly valid," includes considerations such as:		
<ol> <li>Is the Tiered graph consistent with the main Culture-Language graph or the other secondary (language-only/culture-only) graphs?</li> </ol>		
<ol> <li>Is there any variability in the scores that form the aggregate in a particular cell that may be masking low performance?</li> <li>Is the pattern of scores consistent with a developmental explanation of the</li> </ol>		
examinee's educational program and experiences?  4. Is the pattern of scores consistent with a developmental explanation of the		
cominec's linguistic/seculturative learning aperience? Evaluation of results using all graphs, including secondary ones, identification of score variability in relation to CHC domains or task characteristics, and		
evaluation of educational, cultural, and linguistic developmental experiences assists in determining the most likely cause of score patterns and overall test score validity.		
,		
A Best Practice Framework for Comprehensive Evaluation of ELs		
1. Assess and evaluate factors that offect apportunity to learn and aperformée expected development (baseline functioning)     1 include assessment of first and second inaquage acquisition, type and length of jornal schooling, <u>opportunity</u> for learning via systematic opportunit to insquisit and acculturative experiences, parental level of education, literacy, and solot-economic salars.  Pro-	Addresses concerns regarding	
Activides  2. Monitor and evaluate academic skill growth relative to true peen including native/heritage longuage (nr-referral evaluation).  Activides  Activides  2. Monitor and evaluate cardemic skill growth relative to the peen including native/heritage longuage (nr-referral evaluation).  Activides  2. Monitor and evaluation of the peen proper in academic skill in linghift for native/heritage longuage in a peen growth period in the peen proper in academic skill in linghift for native/heritage longuage in a peen growth peen peen growth pee	faimess and equity in the assessment process	
Broade workers. Old injurious own (e.g., who shapes, port (yolos, etc.) of line's Jorna dout unexcess worker or in stay has framework (e.g., 60%) progress monothoring clarify, standardized lest data), Good to evaluate progress and growth, not determine disobility.  3. Assess and evaluate construct validity in all areas in English first (exclusion of cultural/linguistic factors)		
<ul> <li>Evaluate in English first (when possible and appropriate) using true peer comparison and standards for expected performance.</li> <li>For formal testing, the C-LIM can be used for this purpose. If all data indicate average performance, a disability is unlikely and funderal valent of the conduction underseavely. I some data suggest performance is below the perer, continue evaluation.</li> </ul>	Addresses possible bias in use of test	
<ul> <li>If performance in some areas evaluated in English is lower than expected compared to true peers, re-assess the same areas in the native/heritage language (when possible and appropriate) to support them as areas of true weakness.</li> </ul>	scores	
Decision  Making  5. Cross-veilidate all data with contextual factors and pra-referral information (ecological volidity for discoliity)  • Use all other case do not and information is serve as the context by which to evaluate the L1 and L2 data and ensure ecological volidity for any conclusions that have been made.		
Practical Considerations for Addressing Test		
Score Validity in Evaluation of ELs  1. The usual purpose of testing is to identify deficits in ability (i.e., low scores)		
<ol> <li>Validity is more of a concern for low scores than average-higher scores because:</li> <li>Test performances in the average range are NOT likely a chance finding and strongly suggests average ability (i.e., no deficits in ability)</li> </ol>		
<ul> <li>Test performances that are below weenings MAY be a chance firingly because of experiential or developmental differences and flust on or automatical confirm below average ability (i.e., possible deficial in ability).</li> <li>3. Therefore, testing in one language only (English or native language) means that:</li> </ul>		
Therefore, recently in the language any [Linguist or Inserve adjustable] (i.e., 2 all scores are average or higher, they are very likely to be valid).  It can be determined that a stander DOES NOT have a disability (i.e., 2 all scores are average or higher, they are very likely to be valid).  It CANNOT be delemined if the student has a disability (i.e., low scores must be validated as true.)		
* II - UNIVECT for the destination in we subcern it as a causaway (i.e., low sources make for waterned as true authority or defect althing).      **Testing requires confirmation that deficits are not an inquiring dependent of each and water in the destination of the destination of the defect as we not an inquiring-specific and exist in both languages.		
<ul> <li>leating required continuation that dedicate are not singluspel-specie and east an corn anguages (activing in the performance in both on enseal from other factors).</li> <li>All low lest scores, whether in English or the native language, must be validated.</li> <li>Low scores from leating in English can be validated via research underlying the C-LIM.</li> </ul>		
Low scores from testing in English can be valuated via research underlying the ULIM     Low scores from testing in the native kingluage cannot be validated with research		

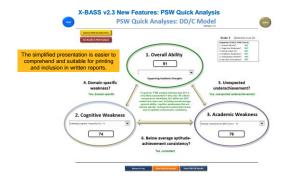
#### **Translating Research into Practice**

Evaluation Issues and Methods	Norm sample representative of bilingual development	Measures a wider range of school-related abilities	Doecnot.require the evaluator to be billingual	Adherecto the test's standardized protocol	Substantial research base on bilingual performance	Sufficient to identifyor diagnosis disability	Accounts for variation in billingual development	Most likely to yield reliable and valid data and information	Provides extensive data regarding development
Modified or Altered Assessment	×	✓	✓	×	×	×	×	×	×
Reduced- language Assessment	×	×	✓	✓	×	×	×	×	×
Dominant Monolingual Assessment in L1: native only	×	✓	×	✓	×	×	×	×	×
Dominant Monolingual Assessment in L2: English only	*	1	✓	~	Y	×	×	×	×
Multilingual Assessment in L1 + L2	$\bigcirc$	V	✓	<b>√</b> 7	$\bigcirc$	✓	✓	✓	✓

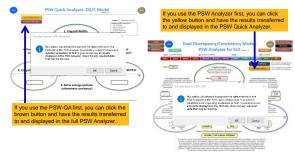




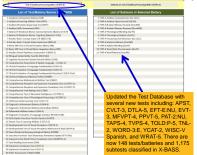




#### X-BASS v2.3 New Features: Two-way PSW data/results transfer



#### X-BASS v2.3 New Features: Test List-QR has new tests/batteries and auto display of subtests



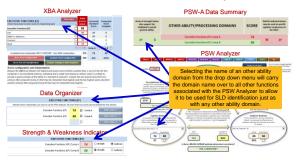
#### X-BASS v2.3 New Features: Auto loading of subtests from Test List-QR to XBA Analyzer



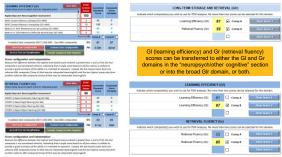
#### X-BASS v2.3 New Features: Enhanced Cohesion Statements



#### X-BASS v2.3 New Features: Selectable/modifiable "other ability" domain



#### X-BASS v2.3 New Features: Separation of GIr into GI and Gr

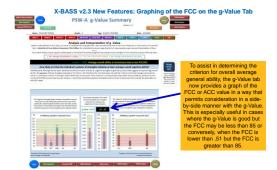


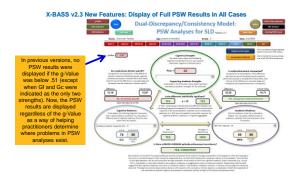
#### X-BASS v2.3 New Features: Exclusionary Factors Form Tab

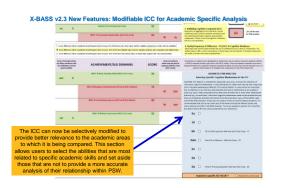


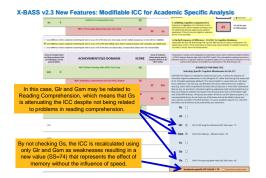
Simply check off the appropriate boxes, enter any additional information, including notes, and click the Print Form button to print ut a completed form that examines and considers all possible exclusionary factors that must be ruled out to disanses SI D

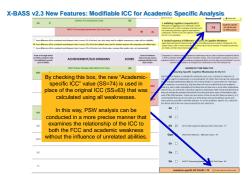
X-BASS v2.3 New Features: Cognitive-Achievement Relations Tab	
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X-BASS v2.3 New Features: Manifestations of Cognitive Weaknesses Tab  Manifestations of Cognitive Weaknesses	
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X-BASS v2.3 New Features: Minimizing Effects of Cognitive Weaknesses Tab	
Minimizing Effects of Cognitive Weaknesses	
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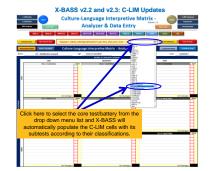




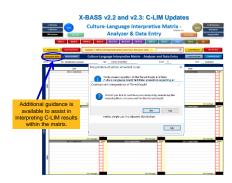














#### X-BASS v2.2 and v2.3: C-LIM Updates



#### X-BASS v2.2 and v2.3: C-LIM Updates



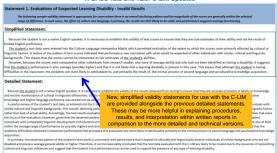
X-BASS v2.2 and v2.3: C-LIM Updates



#### X-BASS v2.2 and v2.3: C-LIM Updates



#### X-BASS v2.2 and v2.3: C-LIM Updates



#### A Guided Case Study Example of **Evaluation of an English Learner** for Specific Learning Disability

Evaluation of Maria Ayala Tests Used: WISC-V, WIAT-III, and WJ IV DOE: 5/29/2017 DOB: 9/6/2007 Grade: 4

#### Multilingual Assessment of ELs: Step by Step

# Step 1. Test first in English (L2) and evaluate construct validity in all areas in English (exclusion of cultural/linguistic factors)

- It all scores indexe normalive stemptiss ( $S \approx 90$  or higher) when tested in English (12), scores are valid to the extent that a disability is not likely, thus no further testing is necessary. If some scores are normative weeknesses (SS < 90) evaluate test score validity in a research-based manner, e.g., via the C-LIM indicates primary influence of language/culture, test scores are likely invalid and indicate average ability in all areas and a disability is not likely, thus no further testing is necessary. If C-LIM indicates contributory or minimal influence of language/culture, test scores are likely to be valid and the evaluation should continue.

### Step 2. Re-evaluate areas of weakness in native language (L2) to provide additional supporting evidence of validity (cross-linguistic confirmation)

If data indicate an area is a strength (i.e., average), then original L2 score is invalid, use the L1 score.
 If data indicate an area is still a weakness, then original L2 score is valid, use the L2 score.

# Step 3. Further cross-validate L1 and L2 test scores with contextual factors and pre-referral data and academic concerns (ecological validity for disability)

#### Use all other case data and information to serve as the context by which to evaluate the test scores and ensure ecological validity to conclusions

#### SLD Identification with an English Learner: A Case Study 1: Enter all available subtest scores in C-LIM Analyzer to determine validity

2: When likely/possibly valid, transfer data and enter remaining composite scores

3: Use XBA to conduct follow up testing where indicated and as necessary

4: Enter follow up tests and re-evaluate pattern with C-LIM Summary

5: If still likely/possibly valid, evaluate follow up testing results via XBA Analyzer

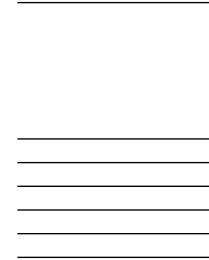
6: Transfer cohesive composites (and academic subtests) to Data Organizer

7: Identify deficits for native language re-evaluation and compare to original score:

8: Select best scores for PSW Analysis and designate each as strength or weakness

9: Evaluate scores and results from PSW-A Data Summary and PSW Analyzer

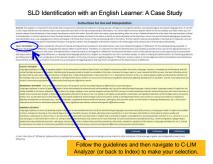
10: Use additional data and information to support interpretations and conclusions

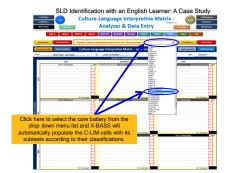


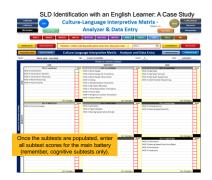
SLD Identification with an English Learner: A Case Study	
WISC-V/WJ IV/WIAT-III XBA DATA FOR Maria Ayala DOE: 5/29/2017 DOB: 9/6/2007 Grade: 4	
WECHSLER INTELLIGENCE SCALE FOR CHILDREN-V	
Verbal Comprehension Index 76. Ekid Remoning Index 82 Visual-Spatial Index 95. Similarities 5 Matrix Resoning 7 Block Design 9 Vocabulary 6 Figure Weights 7 Visual-Puzzles 9	
Working Memory Index 79 Processing Speed Index 94	
Digt Span 5 Coding 9 Picture Span 7 Symbol Search 8 WICK-ISLER INDIVIDUAL ACHEVIMENT TEST-III	
Basic Reading 94 Reading Comprehension 76 Written Expression 92	
Pseudoword Decoding 98 Oral Reading Fluency 80 Sentence Composition 86 Essay Composition 93	
WOODCOCK JOHNSON-IV TESTS OF COGNITIVE ABILITY  Auditory Processing 91 LT Storoge/Retrieval 77	
Phonological Processing 99 Story Recall 79 Nonword Repetition 84 Visual-Auditory Learning 75	
Start/Data Record Management	
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Enter the required information, create a new case record, and check the ELL box—although entering	
data in the C-LIM also automatically informs X- BASS that the case involves an ELL.	
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If the box is checked, X-BASS will recognize the	
new case record as an English learner and automatically recommend navigation to the C-LIM.	

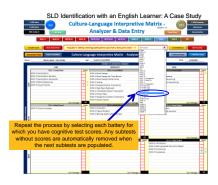




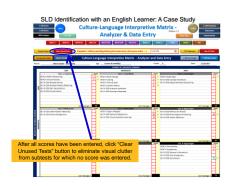


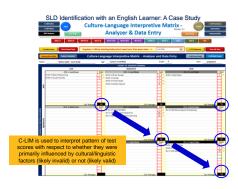


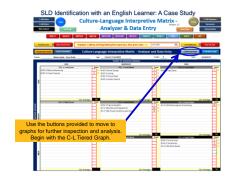


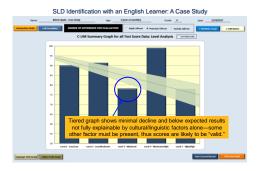


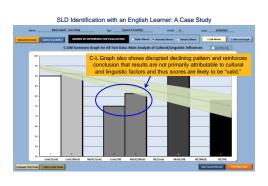








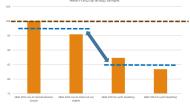




	S	LD Identific	ation with a	n English I	Learner: P	Case S	tudy	
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Interpretive Cal	Sellierd Variability	DOGASE OF DIF	PERENCE FOR EVALUATIO	C State Offices	Hoderately Different	Markedy Officers	C CIM Matrix	C-EMIT Covel Graph
		C-LIM Summary	Graph for All Test Da	ita: Main Analysis	of Cultural/Lings	uistic Influenc	<b>05</b> Essections from	
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#### **Research Foundations for EL Evaluation**

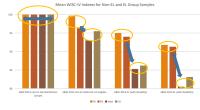
ELs and non-EL's perform differently: Broad ability level



Sydt, K. M. & Walkins, M. W. (011), Clagrossic Utility of the Culture-Language Interpretive Matrix for the Weichsler Intelligence Scales for Children—Fourth Edition Among Refer Subtress. School Psychology Review, 40(4), 267–260.

#### **Research Foundations for EL Evaluation**

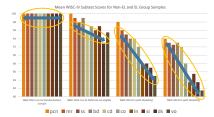
ELs and non-EL's perform differently: Index level



Syck, K. M. & Warker, M. H. (2015), Diagnosis Utility of the Culture-Language Integretive Metric for the Wechsler Intelligence Scales for Children—Fourth Edition Among Reference, School Psychology Review, 40(4), 207-200.

#### **Research Foundations for EL Evaluation**

ELs and non-EL's perform differently: Subtest level



Spck, K. M. & Walkins, M. W. (012). Diagnosis: Utility of the Culture-Language Interpretive Matrix for the Wechsler Intelligence Scales for Children—Fourth Edition Among Referred

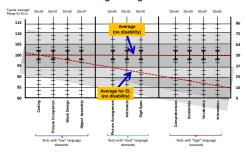
#### Research Foundations for EL Evaluation: EL to ES



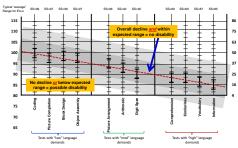
#### Fairness in Determining "Average" Performance: ES to ES

Typical "aven Range for No	age" SS=100	SS=100	SS=100	SS=100	SS=100	SS=100	SS=100	SS	100 8	SS=100	SS=100	SS=100	
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#### Fairness in Determining "Average" Performance: EL to ES



#### Fairness in Determining "Average" Performance: EL to ES



#### Interpretive Errors in C-LIM Studies: Styck & Watkins

Overall decline and within	n		EL Sample (with disability)	Norm Sample (no disability)
expected range = no disabi	WISC-IV C-LIM	Invalid Scores (decline)	N=9 (N=6, 7.0%) (N=3, 3.5%)	N = 100 (4.9%)
No decline or below expectange = possible disabilit		Valid Scores (no decline)	N = 77 (89.5%)	N = 1,933 (95.1%)

The authors noted that "roughly 97% of (n = 83) of participants were identified as meeting criteria for an educational disability (80% as SLD)" (n, 371). Yet, only 9 ELL cases (10.5%) resulted in invalid scores (n disability). Thus, the C-LM suggested invalid scores in 9 cases, 3 of which were levely correct (those without disabilities) so that the C-LM was consistent with and supported the placement decision of the child by the district in 93% of the cases (89.5% + 3.5%). Moreover, the results of analyses with the WISC-VI normative sample show that declines reliative to language are unusual, perhaps even indications of potential SLI in monolingual, native English speakers as described by Cormier et al. (2014).

To summarize, far from undermining the validity of the C-LIM, the Styck & Watkins studies provide strong and powerful support for the clinical utility and validity of the C-LIM when evaluating EL test performance.

24

#### Research Foundations for EL Evaluation: EL to ES

The influence of language on subtest level performance in English speakers and English learners.

		Variance explained				
ighest	Individual test	7-10	11-14	15-18		
utraste	Verbal Comprehension	.79:	.861	.81<	C-LIM	
mands	General Information	.714	.854	.864	Level	
1	Concept Formation	.67:	.71*	.67:		
	Visual-Auditory Learning	.40°	.379	.415	C-LIN	
	Delayed Recall Visual-Auditory Learning	.390	.329	.370	Level	
	Analysis Synthesis	.296	.449	.47%		
	Sound Blending	.25h	.32)	.35%		
	Auditory Working Memory	.22b	.449	.32 <sup>6</sup>		
	Retrieval Fluency	.226	.221	.28%	CHIM	
	Memory for Words	.186	.321	.23 <sup>b</sup>	Level	
	Numbers Reversed	.176	.269	.30°	Level	
	Pair Cancelation	.170	.119	.115		
	Rapid Picture Naming	.16 <sup>b</sup>	.07*	.165		
	Incomplete Words	.13 <sup>b</sup>	.319	.23h		
	Visual Matching	.136	.159	.165	C-LIN	
	Decision Speed	.126	.15%	.196	Level	
1	Auditory Attention	.10 <sup>b</sup>	.20 <sup>h</sup>	.15h		
rwest	Spatial Relations	.08*	.164	.161	CHIM	
guage	Planning	.07*	.123	.119	Lovel	
anrk	Picture Recall	.02*	.061	100	Level	

\*Source: Carmier, D.C., McGew, K.S. & Yareldyks, J. E. (2014). The Influences of Linguistic Domand and Cultural Loading on Cognitive Test Scores. Journal of Psychocolacutional Assessment, 327), 610-623.

#### Research Foundations for EL Evaluation: EL to ES

EL performance is moderated by level of English proficiency as compared to ES



\*Data for this subtest were not reported in the stud

#### Fairness in Determining "Average" Performance: EL to ES

Matrix of WISC subtest means arranged by EL vs. ES test performance

		DEGREE OF LINGUISTIC DEMAND					
		LOW		MODE	RATE	HIGH	
9	LOW	Coding Object Assembly		Block Design		Digit Span	
OAD		Level 1	SS= 99	Level 2	SS= 97	Level 3	SS= 91
DEGREE OF CULTURAL LOADING	MODERATE	Picture Completion		Arithmetic		Comprehension	
9		Level 2	SS= 97	Level 3	SS= 91	Level 4	SS= 89
DEGRE	HIGH	Picture Arrangement				Information Similarities Vocabulary	
		Level 3	SS= 91	Level 4	SS= 89	Level 5	SS= 85

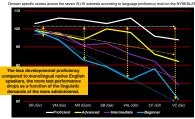
Posparch	<b>Foundations</b>	for EL Eva	lustion:	ΕI	to	Ē
Kesearch	Foundations	tor EL Eva	iuation:	EL	το	Е

General ability level performance as compared to other English learners



#### Research Foundations for EL Evaluation: EL to EL

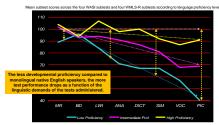
Subtest level performance as compared to other English Learners



Source: Sotelo Oynega, M., Ortiz, S.O., Flanagan, D.P., Chaplin, W. (2013). English Language Proficiency and Test Performance: Evaluation of bilinguals with to Wicodoxck-Johnson II Tests of Cognitive Ability. Psychology in the Schools, Vol 50(8), pp. 781-797.

#### Research Foundations for EL Evaluation: EL to EL

Subtest level performance as compared to other English Learners



Source: Dynda, A.M. (2008). The relation between language proficiency and K2 test performance. Unpublished manuscript. St. John's University,

Summary of Research Foundations for EL	Evaluation
I. COMPARED TO ENGLISH SPEAKERS (EL to ES): Test performance of EL to degree to which a given index or subtest relies on or requires age- or grade	expected English

COMPARED TO ENGLISH LEARNERS (EL to EL): Test performance of ELs is further
moderated by the degree to which an EL varies in terms of their own developmental English
language proficiency and acculturative knowledge acquisition.

Proper interpretation of EL test performance thus requires a true peer group of other ELs that is based not on the language spoken by the individual but on comparison to other ELs with the same degree of English exposure and development.

With one exception, current test norm samples lack control for developmental differences in English language exposure. This means that interpretation of test scores at any level must be made within the context of research which provides the only empirically-derived, albeit, very ough, true peer standard or "norm group".

Use of research on the relative test performance of ELs based on language exposure (as reflected by the degree of 'difference' the student displays relative to the norm samples of the tests being used) is the very foundation and sole purpose of the C-LIM.

#### SLD Identification with an English Learner: A Case Study

1: Enter all available subtest scores in C-LIM Analyzer to determine validity

2: When likely/possibly valid, transfer data and enter remaining composite scores

3: Use XBA to conduct follow up testing where indicated and as necessary

4: Enter follow up tests and re-evaluate pattern with C-LIM Summary

5: If still likely/possibly valid, evaluate follow up testing results via XBA Analyzer

6: Transfer cohesive composites (and academic subtests) to Data Organizer

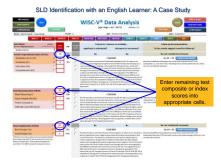
7: Identify deficits for native language re-evaluation and compare to original scores

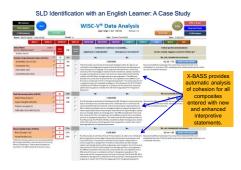
8: Select best scores for PSW Analysis and designate each as strength or weakness

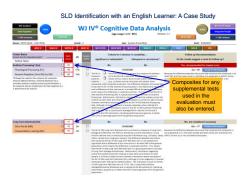
9: Evaluate scores and results from PSW-A Data Summary and PSW Analyzer

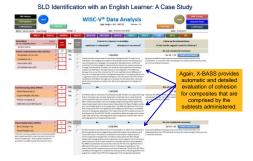
10: Use additional data and information to support interpretations and conclusions

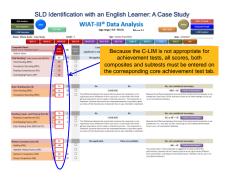
# SLD Identification with an English Learner: A Case Study Culture-language interpretive Matrix Analyzer & Date Entry Analyzer & Date En

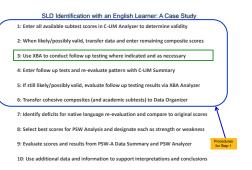












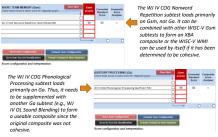








#### SLD Identification with an English Learner: A Case Study



#### SLD Identification with an English Learner: A Case Study

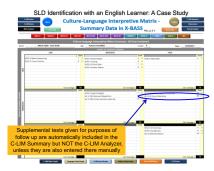
WISC-V/WJ IV/WIAT-III XBA DATA FOR Maria Ayala DOE: 5/29/2017 DOB: 9/6/2007 Grade: 4

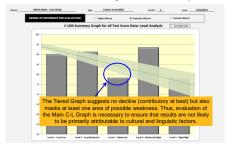
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SLD Identification with an English Learner: A Case Study	_
1: Enter all available subtest scores in C-LIM Analyzer to determine validity	
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3: Use XBA to conduct follow up testing where indicated and as necessary	
4: Enter follow up tests and re-evaluate pattern with C-LIM Summary	]
5: If still likely/possibly valid, evaluate follow up testing results via XBA Analyzer	
6: Transfer cohesive composites (and academic subtests) to Data Organizer	
7: Identify deficits for native language re-evaluation and compare to original scores	1
8: Select best scores for PSW Analysis and designate each as strength or weakness	\
9: Evaluate scores and results from PSW-A Data Summary and PSW Analyzer	Procedures for Step 1
10: Use additional data and information to support interpretations and conclusions	









#### SLD Identification with an English Learner: A Case Study



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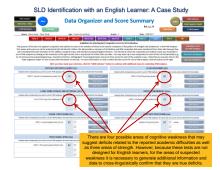
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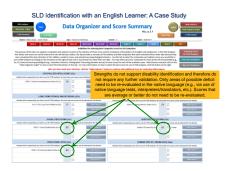
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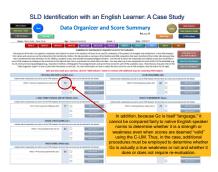
Evaluate scores and results from PSW-A Data Summary and PSW Analyzer
 Use additional data and information to support interpretations and conclusions

SLD Identification with an English Learner: A Case Study	
Complining WISC-V subtests from Will creates a cohesive Subtest SBA  WINGS Neverthern Service Sand Service Sa	
to use existing WMI, a 3-subtest composite is more reliable than a 2-	
COSTROC town a laterior discrepance 550 79 subtest test composite so the XBA  and the discrepance for the discrepance for the composite is preferable and will be transferred to the Data Organizer.	
The difference definement that higher and behaves it moves a boll that LDD, theneught to the policy or appropriate that a recommend or following a plant and every like and a refl former contributions and compress and belongout the companion as an admission analysis or following that it is intensed that measurements.	
AUXITORY PROZESTANC Cally more to the impropriate of the improvement o	
scores do form a cohesive 2-subtest  XBA composite (SS-92). Thus, performance in auditory processing	
domain is within average range and the XBA composite will be transferred to Data Organizer.	
Now onlygation and disreposition.  See on onlygation and disreposition.  See of seed, to be a seed of	
SLD Identification with an English Learner: A Case Study	
Enter all available subtest scores in C-UM Analyzer to determine validity     When likely/possibly valid, transfer data and enter remaining composite scores	
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10: Use additional data and information to support interpretations and conclusions	
SLD Identification with an English Learner: A Case Study	
Data Organizer and Score Summary    Salar   Sa	
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as a file angles price plan in the laborate being of any since an annual for the laborate being of any since an annual for the laborate being of any since an annual for the laborate being of the lab	
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Only composites may be transferred to the cognitive domains of the Data Organizer. Both test-based composites and XRA composites can be transferred with may, it is some cases, result in up to three scores. Only two of them may be chosen for one in PSVA hashaps and selection should be based on ensuring that the score(s) that best and most vaidly represents the individual's ability in each domain are used.	

SLD Identification with an English Learner: A Case Study	
Data Organizer and Score Summary	
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Set 2 has finding from \$15 (a. 10). No.	
Although both achievement composite and subtest sories may be transferred to the Data Organizer, use of individual achievement subtests rather than composites to define useful for	
Organizer, use of individual achievement subtests rather than composites is often useful for specifying rareas of academic difficulty and proprioring skills for targeted intervention. This also helps avoid having to decide where a composite should be used, for example, the WIAT-III Reading Comprehension and Fluency composite can be used for RC or RF which is ambiguous.	
Using the subtests that make up this composite clarifles the domains for each score.	
Data Organizer provides a summary of test-based composites, any derived XBA composites, and any specific achievement subtests from a test tab or the XBA Analyzer.	
Multilingual Assessment of ELs: Step by Step	
tep 1. Test first in English (L2) and evaluate construct validity in all areas in English (exclusion of cultural/linguistic factors)	
<ul> <li>If all scores indicate normative strengths (SS≈90 or higher) when tested in English (L2), scores are valid to the extent that a disability is not likely, thus no further testing is necessary.</li> <li>If some scores are normative weaknesses (SS &lt; ≈ 90) evaluate test score validity in a research-based</li> </ul>	
manner, e.g., via the C-LIM.  If C-LIM indicates primary influence of language/culture, test scores are likely invalid and indicate average ability in all areas and a disability is not likely, thus no further testing is necessary.	
average abuny in an areas and a disability is not likely, thus no futurier testing is necessary.  If C-LIM indicates contributory or minimal influence of language/culture, test scores are likely to be valid and the evaluation should continue.	
tep 2. Re-evaluate areas of weakness in native language (L2) to provide additional supporting evidence of validity (cross-linguistic confirmation)	
If data indicate an area is a strength (i.e., average), then original L2 score is invalid, use the L1 score. If data indicate an area is still a weakness, then original L2 score is valid, use the L2 score.	
tep 3. Further cross-validate L1 and L2 test scores with contextual factors and pre-referral	
data and academic concerns (ecological validity for disability)  - Use all other case data and information to serve as the context by which to evaluate the test scores and ensure ecological validity to conclusions	-
SLD Identification with an English Learner: A Case Study  1: Enter all available subtest scores in C-LIM Analyzer to determine validity	
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5: If still likely/possibly valid, evaluate follow up testing results via XBA Analyzer	
6: Transfer cohesive composites (and academic subtests) to Data Organizer	
7: Identify deficits for native language re-evaluation and compare to original scores	
8: Select best scores for PSW Analysis and designate each as strength or weakness  9: Evaluate scores and results from PSW-A Data Summary and PSW Analyzer	
Evaluate scores and results from PSW-A Data Summary and PSW Ariangzer  10: Use additional data and information to support interpretations and conclusions	







SID	Identification	with an	English	L garnar	A Caca	Study

## Interpretive Problems with Gc Scores with English Learners

Because Git, by definition, comprised or cluttural knowledge and language development, the influence of these factors cannot be separated from tasks designed to measure them. Thus, unless exposure to Faligh is a controlled variable in a text's norm simple and the sample includes many different languages, Gc scores for FLIs olivops remain at risk for inequitable interpretation even when the overall pattern of scores within the C-LIM is determined to be valid.

For example, a Gc score of 76 would be viewed as "deficient" relative to a norm sample comprised primarily of native English speakers. Moreover, testing in the native language doesn't solve this problem because current native-language tests treat ELs as being all the same (they aren't), as if being behind in English is only temporary (it isn't), as if the country they come from is important (it's not), and as if five years of English learning makes them native English speakers (it doesn't).

Therefore, practitioners must find and rely on a "true peer" comparison group such as that which is formed within the High Culture/High Language cell of the C-LIM to help ensure that ELLs are not uniquity regarded as howing either deficient Ge ability or significantly lower overall cognitive ability—conditions that may simultaneously decrease identification of 5LD and increase supption of ID and speech impairment.

## SLD Identification with an English Learner: A Case Study

Re-evaluation of suspected areas of weakness is necessary to provide cross-singuistic confirmation of potential deficits in functioning. A dissability cannot be identified in an English learner if the observed difficulties cour only in one language. Even then, deficits that are identified to both languages are not definitive evidence of dysfunction and evaluation of expectations for native language performance is as relevant for rative language evaluations at it for evaluation in English.

Because of the nature of Gc, it should be treated slightly differently when it comes to re-evaluation as compared to other cognitive abilities. The following guidelines from the best practice recommendations apply spec

- \*Review results from testing in English and identify domains of suspected weakness or difficulty:
   a. For Gc only, evaluate weakness according to high/high cell in C-LIM or in context of other data and information.

- 6. res to unit, even to uni

It is important that the actual, obtained Gc score, regardless of magnitude, be reported when required, albelt with appropriate nondiscriminatory assignment of meaning, and that it be used for the purposes of instructional planning and educational intervention.

## SLD Identification with an English Learner: A Case Study



## SLD Identification with an English Learner: A Case Study



## SLD Identification with an English Learner: A Case Study

## Interpretive Problems with Gc Scores with English Learners

Although the C-LIM helped determine that Gc is NOT on area of weakness, further evaluation and interpretation is complicated because of the low magnitude of the score (i.e., SS-76). Other corrections on necessary to prevent discriminatory decisions, particularly in evaluation of SLD or SLI. However, use of the Ortiz PVAT provides a simple and more direct solution to all of these problems.



## SLD Identification with an English Learner: A Case Study

## Resolving Problems with Gc Scores for ELs: The Ortiz PVAT

Clearly, the preceding procedures necessary to address validity issues related to the measurement of Gs and language/culture-related abilities are complicated, somewhat cumbersome, and not very efficient. It may also leave the practitioner in the unemiable position of having to defend a very low score (\$52:76) as being technically invalid, but still considered to be an area of processing 'strength'.

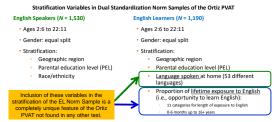
This one issue, more than any other, best highlights the shortcomings of today's tests relative to their failure to provide a true peer comparison group for English learners that would alleviate all of the extra work and potential continuous. There simply is not substitute for being able to make fair and equitable interpretations than comparison to peers with similar developmental experiences.

That said, there is in fact an easier way to do all of this. In response to the many difficulties posed by these issues, a new test has been developed with duol-norm samples, including one specifically for fighish lenemes that yields valid Gets cores for English exerts that yields valid Gets cores for English exerts of any language bockground and level of English exposure—and that test is the Ortal PUXIT.

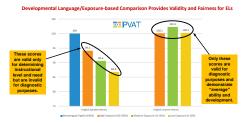


## **Fairness and English Learners:**

## **Ensuring True Peer Comparability**



## The Ortiz PVAT – Advances in fairness and testing



This graph is reproduced from the Technical Manual of the Ortiz PVAT and is Copyright © 2017 Multi-Health Systems Inc. All rights reserve

## The Ortiz PVAT - Fairness for ALL Learners

Removal of all variance due to language results in no influence of race or ethnicity

Norm sample for native English speakers demonstrates negligible effect of race/ethnicity.

Racial/Ethnic Group	N	<u>"</u>	SD	F (df)	P	Pairwise Comparisons (p < .01)	Partial η²
Black	280	99.4	15.2				_
Hispanic	126	99.5	15.4	0.00 (0.4500)	.051		.005
White	1,018	100.5	15.3	2.00 (3, 1323)			1.005
Other	106	96.3	15.3				
Black	280	99.6	15.1		000		
Hispanic	126	99.7	15.3	0.47 (0.4500)		\ <i> </i>	.005
White	1,018	100.6	15.2	2.47 (3, 1523)	.060	l ns	(.005)
Other	106	96.4	15.2				
	Group Black Hispanic White Other Black Hispanic White	Second	Black   280   99.4   Hispanic   126   99.5   White   106   96.3   Black   280   99.6   White   126   99.7   White   1,018   100.6	Group N M SD  Black 280 99.4 15.2 Hispanic 126 99.5 15.4 White 1.018 100.5 15.3 Clther 106 96.3 15.3 Black 280 99.6 15.1 Hispanic 126 99.7 15.3 White 1.018 100.6 15.2	Group N M SD F(df)  Black 280 99.4 15.2 Hispanic 126 99.5 15.4 White 1,018 100.5 15.3 Black 280 99.6 15.1 Hispanic 126 99.7 15.3 Hispanic 126 99.7 15.3 White 1,018 100.6 15.2 2.47 (3, 1523)	Group         N         M         SD         F (df)         p           Black         280         99.4         15.2         15.4         15.2         15.4         15.2         15.4         15.2         15.4         2.60 (3, 1523)         0.51         0.51         0.51         2.60 (3, 1523)         0.51         0.51         0.51         0.51         0.51         15.3         2.60 (3, 1523)         0.51         0.51         1.51         1.52         2.47 (3, 1523)         0.60	Group   N   M   SD   F(df)   p   Comparisons

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## The Ortiz PVAT - Fairness for ALL English Learners

First language learned (L1) does not alter the sequence of learning English (L2)

English language acquisition is an invariant process, irrespective of the native language

Form	Language Spoken	N	W	SD	F (df)	р	Pairwise Comparisons (p < .01)	Partial η <sup>2</sup>	
	Spanish & Spanish Creole	872	101.5	15.5			_	_	
Form A	Indo-European Languages	161	99.4	15.7	1.63		/ns	.004	
	Asian & Pacific Islander Languages		98.8	15.4	(3, 1183)	.101	l lis		
	All Other Languages	28	99.9	15.4				11 1	
	Spanish & Spanish Creole	872	101.7	15.5					
Form B	Indo-European Languages Asian & Pacific Islander Languages All Other Languages		99.8	15.7	1.52	.208	ns	.004	
Form B			99.0	15.4	(3, 1183)	.200	(/		
			99.9	15.4					
			\ /						

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## The Ortiz PVAT – Recommended Applications

Pre-school Screening and Evaluation – dual norms permit evaluation of basic language development (receptive vocabulary) in very young children (minimum age: 2 years, 6 months) in both native English speakers and English learners prior to the beginning of formal instruction.

Progress Monitoring of English Language Proficiency – many tests, for example those used to monitor compliance with Title II ELX requirements are not well designed for that purpose and give misleading results regarding progress and growth and no information relative to the acquisition of BICS vs. CALP.

Determination of instructional Level – the Assessment Report indicates the linguistically appropriate level of instruction and the degree of intensity required to assist the student in making progress toward grade-level standards and expectations. Specific instructional strategies are also provided.

Progress monitoring of Reading and Writing Vocabulary – the Progress Report provides data for evaluating increases in receptive vocabulary that may reflect relative progress in response to specific interventions that are being employed.

Evaluation of Growth in General Language Ability – unlike tests that do not allow measurement of growth, a specific index documenting actual growth in English vocabulary/language acquisition across short and long intervals is provided.

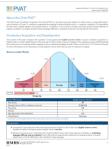
Development of Intervention/Treatment Strategies – performance is linked directly to specific and customized recommendations for language-based intervention and treatment strategies relative to true peers.

Diagnostic and Disability Evaluation – provides the only norm-referenced "true peer" comparison necessary for evaluating "difference vs. disorder" in general language-related disabilities/disorders related to vocabulary acquisition.

## Assessment Report from the Ortiz PVAT



## Assessment Report from the Ortiz PVAT



## Assessment Report from the Ortiz PVAT

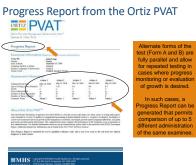


	Assessment	Report	from the	Ortiz	Ρ\/ΔΤ
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## Assessment Report from the Ortiz PVAT



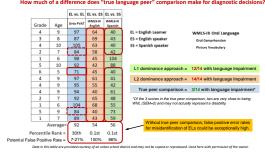


## Progress Report from the Ortiz PVAT

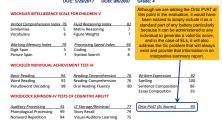
Vocabula v	rv Acc	uisitio	n and	Devel	opmer	t Acre	ass Ad	minist	rations	3	
Acabatary is ex- poseth of an exac eparted Orizz Pi- n vocabalary ski tending at any g- anne exposure to	niner's rece IAT scores si In over ties iven point i	ptive vocal bould be co e, so exami is time (i.e.,	relary shift unidened in serious of the performans	from one o conjunction examiner' or company	educinistration with the Cr stenderd so I to that of t	ns to anoth swith Inder sees at var- lasir same-	e: When int . Since the iron admini- ignd peers i	equeting re browth Inde testions in	oults from r ex only esti- tio require	epeated ada mates the av d to determi	inistrations, o rount of charg se their relate
			desiristrat					rowth Ind	ex -		
Oniz PVAT Scores	Admin 1 05/14/18	Admin 2 06/21/18		Admin 4 02/16/19		Admin 1 to 2	Admin 2 to 3	Admin 35s4	Admin 41o5	Owesil (1 to 5)	
Raw Score	53	58	64	68	66						More than Expected
Standard Score (95% CI)	95 (91–99)	96 (92-100)	97 (93–301)	98 (94–102)	95 (91-99)	0.45	0.45	0.45		0.00	
Age (Age Equivalent)	7:7 (7:6)	7:10 (7:9)	81 60	8.4	87 (8.6)				Ų,		Impeted
Classification	Aurage	Average	Average	Average	Aurage						Auch Less than Expectes
				Rate	of Growth	As Expected	As Espected	As Expected	As Expected	As Expected	

The Growth Index orovides an indication of actual change or true growth across two or more administrations.

## **Performance Across Different Norm Sample Comparisons**



## SLD Identification with an English Learner: A Case Study WISC-V/WJ IV/WIAT-III XBA DATA FOR Maria Ayala DOE: 5/29/2017 DOB: 9/6/2007 Grade: 4



# SLD Identification with an English Learner: A Case Study Avoiding Interpretive Problems by Use of the Ortiz PVAT Orcharist of an Onte PVAT score using the English Isomer name eliminate the 6s problem completely. The oth PVAT for similarly replicate spic (Application Section 4) and the other points of the Chapter of the Ortic PVAT score in Pvat Pvat sore of both memoring/disaffication and actual imagnitude (e.g., 90 - 100 - overage). English Spanish Valid? Interpretation? GG 76 - No ? GG 78 - ? GG 78 - ? GG 78 - ? GG 98 - Yes 5 GG 99 - Yes 5 GG 94 - Yes 5 GG GG Ortiz PVAT] (93 - Yes 5 GG GG Ortiz PVAT] (93 - Yes 5





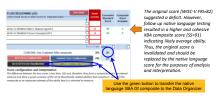
Data Organizer and Score Summary  Stories Stories  Data Organizer and Score Summary  Stories S	
Guideline for feeting their Companies for the State of St	
were considered the due destination of O.C. abilities, and whereof we enterpreciopal of any and a Principle of the Commission of the Commi	
All problem ender para idea than, this lie "Materiabeter" in below the expected range to ensure that it was validated by native language evaluation.	
MIDST National Compression Selection   Table   Midst National   MIDST National Compression Selection   Table   MIDST National Compression   Table   MIDST Nat	
AND CONTRACTOR OF THE STREET S	
enhalter when using it in FSS endpah.  In 20 I I I I I I I I I I I I I I I I I I	
Made of an interpretation of the last of	
ROCESNES METER DEPT.	
Model of the content of the conten	
Nondiscriminatory Interpretation of Test Scores: A Case Study  Determining if and when to re-evaluate all other (non-Gc) abilities	
Because cultural knowledge and language ability are not the primary focus in measurement of other abilities, the influence of cultural/linguistic factors can be determined via the C-LIM and scores below the expected	
range of performance may well be deemed to be the result of factors other than cultural knowledge or language ability. Thus, there is no limitation requiring comparison of performance to a true ELL peer group as there is with GC. Thus, use of a test's norms and the attendant standard classification scheme is	
as mere is with GC. Inus, use of a test's norms and the attendant standard classification scheme is appropriate for determining areas of suspected weakness using tests administered in English for abilities other than Gc.	
However, to establish validity for a low score obtained from testing in English with an ELL, native language evaluation is required. The following guidelines from the best practice recommendations apply to all abilities,	
including Gc—when Gc has been determined to be a weakness because it falls below the expected range of difference in the C-LIM:*	
<ul> <li>Review results from testing in English and identify domains of suspected weakness or difficulty:</li> <li>a. For all abilities, except Gc, evaluate weakness using standard classifications (e.g., SS - 90)</li> </ul>	
<ul> <li>Re-test all domains of suspected weakness, including Gc when it is not within the expected range of difference in the C- LIM* using notive language tests</li> </ul>	
<ul> <li>Administer native language tests or conduct re-testing using one of the following methods:</li> <li>a. Native language test administered in the native language (e.g., WIII/Blateria III or WISC-IV/WISC-IV Spanish)</li> <li>b. Native language test administered via costatione of a trained interpreter</li> </ul>	
c. English language test translated and administered via assistance of a trained interpreter	
<ul> <li>Administer tests in momen recessory to ensure full comprehension including use of any modifications and alterations necessory to reduce barriers to perfamence, while documenting approach to task, errors in responding, and behavior during testing, and analyze scores both quantitatively and qualitatively to confirm and validate areas as true weeknesses</li> </ul>	
*On, (if c was evoluted with the Crist PART, the actual scare when compared to the English Learner norms (NOT the English Speaker norms) indicates that it is likely an area of weathers.	
OLD Idealification with an English Language A Cons Otrob	
SLD Identification with an English Learner: A Case Study  Procedures for Follow-up Evaluation in the Native Language	
When providing cross-linguistic confirmation of areas of weakness that were found via scores derived from	
testing in English, it is helpful (but not actually necessary) to generate scores. Qualitative information and data (e.g., process or error analysis, dynamic assessment, task observations, etc.) are equally helpful and useful with respect to confirming areas of weakness.	
It is also reasonable to use the exact same tests for follow up evaluation in the native language as were initially used in English language evaluation because, in this case, practice effects are diagnostically helpful in terms of discerning "earning ability" from "learning disability".	
Evaluation in the native language can be accomplished in several different ways and will likely depend on the competency of the evaluator and the available resources. Completion of the task may include one or more of the following procedures:	
More 1. Use of native language tests (if available) administered by a bilingual evaluator	
In the absence of parallel or similar native language tests with which to evaluate the necessary domains,	
follow up evaluation will need to resort to other procedures for task completion, including:  3. Use of English language tests translated directly by a bilingual evaluator	
4. Use of English language tests administered via assistance of trained translator     5. Use of developmental or dynamic assessment, informal tasks accompanied by careful observation, error	
analysis, and other probing with the assistance of a translator for communication.	

# SLD Identification with an English Learner: A Case Study Wisc-WILLIAM STANDAR FOR Maria Ayala DDE: \$720017 DOB: \$620007 Grade: 4 WECHSER INTELLIGENCE SCALL FOR GENERALY WISCASSER INTELLIGENCE SCALL FOR GENERALY SCALL FOR GENERAL FOR GENERALY SCALL FOR GENERAL FOR

# SLD Identification with an English Learner: A Case Study WISC-WIN JIVINIAT-II IXA DATA FOR Maria Ayala DOI: \$570.0777 DOI: \$100.0777 Orade: 4 WICHSIER INTELEGENCE SCAL FOR COLLEGENAL WICHGIER INTELEGENCE SCAL FOR COLLEGENAL WICHGIER INTELEGENCE SCAL FOR COLLEGENAL WICHARD INTELEGENCE SCAL FOR COLLEGENAL WICHGIER INTE

## SLD Identification with an English Learner: A Case Study

The original WISC-V Gf-based score (FRI) was cohesive and suggested a deficit (SS-82). Because the corresponding domain (PRI) of the older WISC-V Spanish was bosed on three subtests (Matrix Reasoning) Block Design, and Picture Concepts) and because Block Design is now a part of the new Visual Spatial Index of the WISC-V, it should not be re-tested or used again as a part of the Gfaomin. It is, however, aparpariate to use the two Gf subtests to form a composite via the XBA Analyzer shown below.



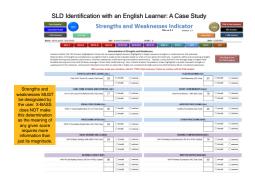
# SLD Identification with an English Learner: A Case Study LONG-TERM STORAGE AND RETRIEVAL (Shr) Show that Store SLD Identification with an English Learner: A Case Study Nondiscriminatory Interpretation of Test Scores: A Case Study Average' or higher scores in testing are unlikely to be due to chance. Thus, when a score obtained from native language esting is found to be in the average range or higher, it serves to effectively invalidate the original ow socre from testing in English since editoris must exist in both languages. Conversely, if another low score in the same domain is obtained from native languages evaluation, it may serve to bother the validity of the original score obtained in English. Based on these premises, the following guidelines from the best practice recommendations offer guidance regarding selection and use of the most appropriate and valid score for the purposes of PSW analysis (or any other situation in which the validity of test scores is central or relevant): • For all dismains, including GC, if a score obtained in the netwive language suggests a dismain is a strength (SS ≥ 50), it serves to immidiately discoupling the corresponding weakness score obtained in fighth—thus, report, such and indepter in the dismain score obtained in the native slength and the score obtained in score obtained in finglish—thus, report, use, and interpret the original charges about score obtained in finglish—thus, report, use, and interpret the original charges about score obtained in finglish of the score obtained in the notive language about score obtained in finglish and score obtained in the corresponding venetices score obtained in sight hat config if yet originates or the contribution of the score obtained in the score obtained in sight hat config it was preference in CE is long from yet score obtained in sight in the score obtained in sight in the score obtained in sight in the obtained of the score obtained in finglish.

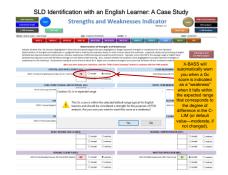
"Athough "average or higher" (e.g., SS-90) is used as a recommended cutoff for supporting the validity of test scores, use of a lever standard (e.g., SS-95) may also represent a reasonable standard for practice since it is based on parformance that can be categorized as being within normal limits.

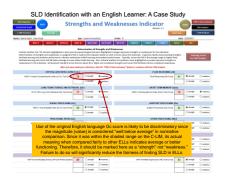
					ing lests with ELs	
DETERMI	Original	Follow up score when		S IN MULTILING te and valid score PSW analysis	BUAL EVALUATION	
	score when tested in English	tested in native	Original Score	Follow Up Score	Rationale for Use as Strength or Weakness in PSW Analysis	
	engisn	language	(in English)	(in native lang)	Strength—scores in or above the	
For ALL domains*	S	n/a	✓		Strength—scores in or above the average range (or even WNL) are unlikely to occur by chance and very likely to be valid thus re-evaluation in the native language is unnecessary	
For ALL domains					Strength-because a deficit cannot exist	
(and when Gc is below expected range in C-LIM)	w	S		<b>✓</b>	in one language only, the original score from testing in English is invalidated and should be replaced by the follow up average score which is likely to be valid	
For ALL domains					Weakness—low scores in both	
(and when Gc is below expected range in C-LIM)	W	W	<b>~</b>		Weakness—low scores in both languages suggest a true deficit but additional, convergent and consistent ecological evidence is required to substantiate scores as deficits	
					Strength—Gc can only be compared fairly to other files thus its position	
For Gc Only (and when Gc is within the expected range in C-LIM)	s	n/a	1		Strength—Gc can only be compared fairly to other ELLs, thus its position within the expected range in the C-LIM should be considered to be average and native language testing may not be necessary unless there is reason to believe it may be informative	
expected range in C-LIM)					necessary unless there is reason to believe it may be informative	
"Although this table uses "avera SS_85) may also represent a re	ge or higher" (e.g., sesoneble standard	SS>90) as a reco for practice since	mmended cutoff for : it is besed on perfor	supporting the validity mance that can be cat	of test scores, use of a lower standard (e.g., igorized as being within normal limits.	
SLD	Identifica	tion with	an English	Learner: A	Case Study	
1: Enter all availa	able subtest	t scores in (	C-LIM Analyz	er to determ	ine validity	
2: When likely/n	nesihly vali	d transfer	data and en	ter remaining	composite scores	
3: Use XBA to co	nduct follo	w up testin	g where indi	icated and as	necessary	
4: Enter follow u	p tests and	re-evaluat	e pattern wi	th C-LIM Sum	mary P	
5 16 -12 11 12 -1 - f -			f-11		•	905 22
5: If still likely/p	ossibiy valic	i, evaluate	tollow up te	sting results v	ria XBA Analyzer	
6: Transfer cohe:	sive compos	sites (and a	icademic sub	tests) to Data	Organizer	
7: Identify defici	ts for native	e language	re-evaluatio	n and compa	re to original scores	
8: Select best sco	ores for PSV	V Analysis	and designat	te each as str	ength or weakness	
9: Evaluate score	es and resul	ts from PS	W-A Data Su	mmary and P	SW Analyzer	
10: Use addition	al data and	informatic	n to suppor	t interpretation	ons and conclusions	
20. 030 0001001	ar data arra	morman	ni to suppoi	t interpretation	ons and conclusions	
SLD	Identifica	tion with	an English	Learner: A	Case Study	
				alid and inter		
Derivation of	an Ortiz PVA	T score usir	a the Fnalish	learner norms	eliminates the Gc	
related/verbal	ability score	because it	was derived p	recisely on EL	flanguage- "true peers" and	
magnitude (e.	g., 90 - 109 =	average).	umaning/c	classification a		
	<u>English</u>	Span	ish V	alid? Inter	pretation?	
- Gc	76	-	7	6 - No	<u>-</u>	
- Gf - Glr	(82) <b>77</b>	91		1 - Yes 7 - Yes	s w	
- Gsm	78	(72		8 - Yes	w	
- Gv	98	-	γ	'es \land	S	
- Ga - Gs	92 94	-		'es 'es	s s	
- Gc (Ortiz P\		-		'es	S	-
Additional n English (w	native language in ith the exception ted the original Co	of the score from	eas of weakness in the Ortiz PVAT), helow average	oted in scores deriv resulted in an avera res that simply cross d by the test scores	ad from testing in ge Gf score that	-
confi	rmed Gir and Gsr	m as areas of we	akness as indicate	d by the test scores	in English.	

SLD Identification with an English Learner: A Case Study										
	State Coday - Other C LDM Serveney	Data Organizer an				nd Score Summary Falouse 2.1  Nod Yop  COM Foods				
	Monte: Black-Ayels - Co.	e Stely	- Art	t jess tem	1460	Strade: d	Dete: \$595017			
MINOV WARRY WITHOUT WATER MINORS SERVICE MINOR MINOR MINOR MINOR MAKE MINOR MAKE										
				Guidel	ines for Selecting Best Con	specific Scores for SEE	Visakatien			
	The garget of this fish is for agreed as employed as and advalance as and the quarter of the first in the case of the complete on the contraction of the partner of developing and contractions in the PAS Advantage for the contraction of the contraction of the contraction of the partner of developing and the contraction of the contracti									See 1936 Analyses Select ALL Chesidown
		After you have a	made you	r selections, clic	R the "SBIR" hedicator" but	toe to continue with	nidNoval steps for conducting PSW a	neljevo.		
For 0	3f, the native	DRYSTALLIZED INTE					FLUID REASON			
langu	uage score is	TO USE TO THE SHOP AND A PO	NOW THE			Indicate which con	qualité)) ya sidirir ya ta 190 aniyas bi			
selected	d for use since it	petranako iroter (Cir.VI.)	76	Test Comp	Oliver Accord		WSG-V Float Researing Index (E4)	82		Observation (
invalida	ated the English	PAT Sore (S. norse)	92	Flanting.	Chur harr 2		Flui featuring (21)	21	F Comp	2007
land	uage score.				Char Scott F					Ches Aure I
iung	judge soore.	LTERM STORAGE AN	D RETR	EVILL (GIV)			SHORT TERM MEN	ioer jo	an)	
Eor Com	, we can choose	to use for Plat analysis. No term of the common to selected for this domain.				indicate which compositely I provide to use for Pliff analyses. No more than two comes can be selected for this do				
	a two-subtest	constitute forward (CF)	77	(Then time	Oliver Score 8		WSC-V Noting Henery Index (Care)	79	[Test Comp.	Chron Access 8
	ased composite			г	CRIS ANN I	$\rightarrow$	Stati Tem Menory - 1614 Own	70	F Comp	Char home 2
	ee-subtest XBA				Char Kerr I			_	-	Char Score 3
		VISUAL PROCES	SP8G (G	G10VI AUDITORY PROCESSING (GL)						
	site. Since three	riscuse for PSW analyses. No		to the same are he	salested for this demain.	Indicate which composite() you wish to use for PSW analyses. No movertien two screen can be selected for this domain.				
	composites are	ual Spatial Rober (Str. VV)	95	Flux Comp.	Char Nav 2		Authory Processing (Ca)	92	F Comp	Olon Acon 3
	more reliable, it was				Clinar Scare 2				г	Ohio Ason J
sel	ected here.			г	Chor Scory 2				г	Gran Score I
		PROCESSING SI	460 10	1)			OTHER PROCESS	ENG.ARE	A	
	motors which conscibill all your	IT TO LOS FOR PORT WHILE THE	TOU TO	toro conscion be	selected for the domain.	Indicate et al-use	reposited of provious to use the PDF environes. No		tura marenian be	selected for this domain.
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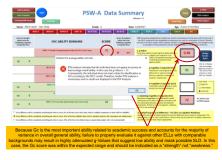
# SLD Identification with an English Learner: A Case Study Data Organizer and Score Summary Data Organizer a







## SLD Identification with an English Learner: A Case Study

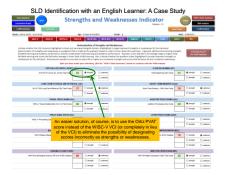


SLD Identificat	ion with an Er	nglish Learner: A	Case S	tudy	1	
Commenced Graph  Collection of	engths and W	eaknesses Indica	ator	(		E Code Summary SOR Analysis COM Analysis
Moreon Maria Apolin-Crost Study	Apr. Tymes Emerth(s)	Eredo d		Date: 5	ONOR?	
MICH WARN WITHIN	MATER BURGOO BUNAC	WHAT BACK THAT	CARE	969-6	105	
	Datamination of Strengths and	f Worknessen				
Indicate whether that CHC domains (highlighted in blue) an Deturnisation of six-regits and residences in a prignated facilitate learning and academic per-formation, where are use facilitate learning and potent that fall before servinge or fer vendoration. Six the individual, dubinoverset distincted and Affire pool for Affire pool for Affire pool for	that is made by the evaluator based on a sinesses whilst learning and academic p ser likely inhibit learning. Abo, indicate a section are about 10 or higher are consist section.	what is brown about the experience in general, at performance. Typically, access that fall in the away whether the expelence areas (highlighted in purple	hilly and processing shall rage range or higher like Gregoroent strongths or considered unabresses	ely	Selection (Selection (	ing Scotters If Amadigner
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,	Credital Credital				Onwe	O vestiones
LONG TERM STORAGE AND RET	BEVAT (Ob)	SHO	OF TERM MEMORY (O	uni)		
NUTY COS Long Term Platraval (SI) Test Cong	77 Odrege Breaken	WISC II Rosting Memory II	hde (Corr) Test Corre	79	Owner	8 materials
	O description Consistence				Owner	O wateres
VISUAL PROCESSING	Del .	MD	CORY PROCESSING	Ge)		
WISO V Visual Stated Index (Skrits Test Cores	35 Warren Control	Author	Processing (Gel Comp	92	****	O wateres
	Oriental Constituti				Others	Owner
PROCESSING SPEEDS	Del .	on	ER PROCESSING AR	EA .		
MSC-1 Processing Speed Index Set Test Comp.	M Banya Creater		_		Orman	() wateres
Use	of obtained SS for 0	Gc combined with			() drangth	Owner
w assignme	nt of nondiscriminal	tory meaning using the	COMPREHENSION	65O		
C-LIM, p	rovides less biased	and fair interpretation			Onwah	Owner
of a	billity in area of Gc b	pecause X-BASS			Owner	Overleen
automa	tically handles the C	3c score in ways that			Onwe	Owner
prevent	biased and discrim	ninatory calculations.	EN EXPRESSION P	(E)		
MAC 46 One Flooding Flooring (AF Grow-Robin) Subtem			sion (AC) Text Comp	92	****	Overless
	Omega Oveless				Onwell	Owner

## SLD Identification with an English Learner: A Case Study



To prevent discriminatory attenuation in the case of ELs, if the Gc score is designated as a strength, and it is SS < 90 but within or above the expected range in the C-LIM, X-BASS will automatically exclude it from the calculations for the FCC. Use of the Ortiz PVAT eliminates the need for this corrective action.



## **Multilingual Assessment of ELs: Step by Step**

# Step 1. Test first in English (L2) and evaluate construct validity in all areas in English (exclusion of cultural/linguistic factors)

- It all scores indicate normative strengths (SS = 90 or higher) when tested in English (12), scores are valid to the extent that a disability is not likely, thus no further testing is necessary.

  If some scores are normative weeknesses (SS < 90) evaluate test score validity in a research-based manner, e.g., via the C-LIM indicates primary influence of language/culture, test scores are likely invalid and indicate average ability in all areas and a disability is not likely, thus no further testing is necessary.

  If C-LIM indicates contributory or minimal influence of language/culture, test scores are likely to be valid and the evaluation should continue.

If data indicate an area is a strength (i.e., average), then original L2 score is invalid, use the L1 score.
 If data indicate an area is still a weakness, then original L2 score is valid, use the L2 score.

# Step 3. Further cross-validate L1 and L2 test scores with contextual factors and pre-referral data and academic concerns (ecological validity for disability)

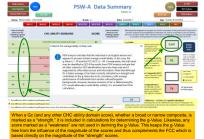
Use all other case data and information to serve as the context by which to evaluate the test scores and ensure ecological validity to conclusions

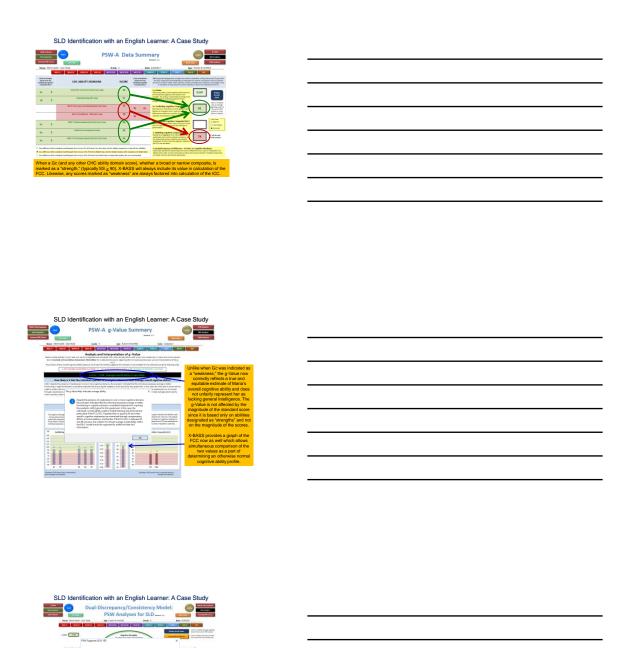
## SLD Identification with an English Learner: A Case Study

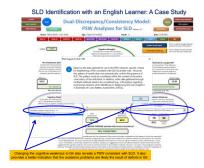
- 1: Enter all available subtest scores in C-LIM Analyzer to determine validity
- 2: When likely/possibly valid, transfer data and enter remaining composite scores
- 3: Use XBA to conduct follow up testing where indicated and as necessary
- 4: Enter follow up tests and re-evaluate pattern with C-LIM Summary
- 5: If still likely/possibly valid, evaluate follow up testing results via XBA Analyzer
- 6: Transfer cohesive composites (and academic subtests) to Data Organizer
- 7: Identify deficits for native language re-evaluation and compare to original scores 8: Select best scores for PSW Analysis and designate each as strength or weakness
- 9: Evaluate scores and results from PSW-A Data Summary and PSW Analyzer

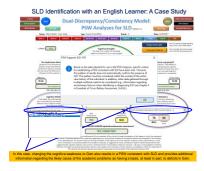
10: Use additional data and information to support interpretations and conclusions

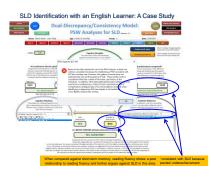
## SLD Identification with an English Learner: A Case Study











SLD Identification with an English Learner: A Case Study	
PSW Quick Analyses: DD/C Model  1. Overall Ability  1. Overall Abi	
4. Domini specific weathers?  The second smaller of the manage second means and the state of the state	
2. Cognitive Weakness	
24 6. Below average aptitudes activement continuous?  The accurate of the active activ	
Transferring the scores into the PSW-QA provides a much simplified view of the results and is far more suitable for explaining results to	
others and including in typical psychoeducational reports.	
SLD Identification with an English Learner: A Case Study	
Enter all available subtest scores in C-LIM Analyzer to determine validity     When likely/possibly valid, transfer data and enter remaining composite scores	
When mery possibly valid, transfer data and effect remaining composite scores     Use XBA to conduct follow up testing where indicated and as necessary	
4: Enter follow up tests and re-evaluate pattern with C-LIM Summary	
5: If still likely/possibly valid, evaluate follow up testing results via XBA Analyzer	
6: Transfer cohesive composites (and academic subtests) to Data Organizer  Procedures	
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8: Select best scores for PSW Analysis and designate each as strength or weakness	
9: Evaluate scores and results from PSW-A Data Summary and PSW Analyzer	
10: Use additional data and information to support interpretations and conclusions	
SLD Identification with an English Learner: A Case Study	
The Importance of Converging Evidence in Establishing Validity	
Validity is based on an accumulation of evidence. The evaluation approach described herein is designed to assist in generating test scores that may be interpreted as valid indicators of an individual's abilities. Embedded in the broader framework are two basic forms of evidence that botter the validity of	
obtained test scores by using expectations of test performance that are grounded in research on individuals of comparable cultural and linguistic backgrounds and the extent to which their development differs from the individuals on whom the tests were normed. Validity is thus inferred by:	
Thest scores from evaluation in English that have been subjected to systematic analysis of the influence of cultural and linguistic variobles where such factors have been found to be either minimal or contributory but not primary factors in lets performance;	
Parties of the description of the second of	
To these two forms of evidence, a third should be added to fully support conclusions and interpretation of the obtained test scores:	
3. Ecological and contentual evidence regarding consistency of the test scores with ecological data and information and evidence regarding consistency of the test scores with ecological data and information and evidencemental influences (e.g., 1, and 12 exposure, flaences), relaxaging contents and performance with other case data (e.g., progress annotating data, pre-referral concerns, work samples, detervations, school records, texteder/parent reports, grades,	
interviews, observations, etc.).  Only when all three forms of evidence are seen to converge can there be sufficient confidence in the	
use and interpretation of test scores obtained in an evaluation of English learners.	

## SLD Identification with an English Learner: A Case Study Sample Validity Statement for ELL Evaluations

# SLD Identification with an English Learner: A Case Study Sample Validity Statement for EL Evaluations Simplified Validity Statement for LIKELY SLD and Determination of VALID Results Because XXXX is not a native English speaker, it is necessary to establish the validity of test scores to ensure that they are true estimates of their ability and not the result of limited English proficiency. XXXX's test data were entered into the Culture-Language Interpretive Matrix which permitted evaluation of the extent to which the scores were primarily affected by cultural or linguistic factors. A review of the pattern of test scores indicated that performance was not consistent with what would be expected of other individuals with similar cultural and linguistic backgrounds. This means that the scores may be interpreted as fair estimates of XXXX's abilities, with the exception of language which can only be determined to be an area of strength or weakness via comparison to other English learners which was accomplished by further use of the C-LIM. SLD Identification with an English Learner: A Case Study Sample Validity Statement for EL Evaluations Simplified Validity Statement for UNLIKELY SLD and Determination of INVALID Results Because XXXX is not a native English speaker, it is necessary to establish the validity of test scores to ensure that they are true estimates of their ability and not the result of limited English proficiency. XXXXs test data were entered into the Culture-Language Interpretive Matrix which permitted evaluation of the extent to which the scores were primarily affected by cultural or inquisite factors. A review of the pattern of test scores indicated that performance <u>was consistent</u> with what would be expected of other individuals with similar cultural and linguistic backgrounds. This means that the scores cannot be interpreted as fair estimates of XXXXs abilities. However, because the scores were compared to other individuals from research studies who were of average ability and who had not been identified as having a disability, it suggests that XXXX's performance is also average (possibly higher) and that it is not likely that a learning disability is present in this case. This means that although XXXX is having difficulties in the classroom, the problems are most likely to attributable to, and primarily the result of, the normal process of second language and acculturative knowledge acquisition.

## **Assessment and Related Resources**

TESTS:
Ortiz Picture Vocabulary Acquisition Test (Ortiz PVAT)
https://www.mhs.com/ortizpvat

Ortiz PVAT Free 30-Day Trial and 2 Free Uses http://info.mhs.com/OrtizPVATfreetrial

BOOKS:
Ortiz, S. O., Flanagan, D. P. & Alfonso, V. C. (2015). Cross-Battery Assessment Software System (X-BASS v2.XL). New York: Wiley & Sons, Inc.

Ortiz, S. O., Flanagan, D. P. & Alfonso, V. C. (Winter 2019–coming soon). <u>intervention</u>. <u>Ubrary: Finding interventions</u>, resources and supports for students with Jearning difficulties [III:FIRST VI.0]. New York: Wiley & Sons, Inc.

Flanagan, D. P., Ortiz, S.O. & Alfonso, V.C. (2013). <u>Essentials of Cross-Battery Assessment</u>, Third Edition. New York: Wiley & Sons, Inc.

ONLINE:
Competency-based XBA Certification Program
https://www.schoolneuropoych.com/sha//
CHC Cross-Battery Online
http://www.crossbattery.com/

Free C-LIM Resources http://facpub.stjohns.edu/~ortizs/CLIM/index.html



