

Cross-Battery Assessment

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What is Cross Battery?

It is an approach that provides evaluators with the means to make systematic, valid, and up-todate interpretations of intelligence batteries and to augment them with academic ability tests in a way that is consistent with the empirically supported Cattel-Horn-Carrol (CHC) theory of cognitive abilities.

It allows the examiner to conduct assessments that approximate the total range of <u>broad and</u> <u>narrow cognitive abilities</u> more adequately than what is possible with a single intelligence battery.

It also takes into consideration a variety of exclusionary factors that could affect student's academic performance.



Cross Battery

Cross battery systematically looks at a wide range of broad and narrow cognitive processes including language-based processes (Gc).

Interpretation of strengths and weaknesses is at the cluster (not subtest) level, yielding better reliability.

The seven clusters most commonly used are:

- Comprehension-Knowledge (Gc)
- Fluid Reasoning (Gf)
- Short Term Memory (Gsm)
- Long Term Retrieval (Glr)
- Auditory Processing (Ga)
- Visual Processing (Gv)
- Processing Speed (Gs)

When is Cross Battery Assessment Used?

Whenever the constructs of interest cannot be assessed using a single battery

When there is a need to follow up on inconsistent scores

Comprehensive FIE

Assessment of Specific Learning Disability





Operational SLD Definition- Dual Discrepancy/Consistency

D-There is an unexpected discrepancy between overall cognitive ability and academic achievement in a specific area.

D-There is a discrepancy between overall cognitive ability and a specific deficit in linguistic competence, cognitive processes, or neuropsychological processes.

C-There is consistency between academic and cognitive deficits measured, demonstrated by a logical and empirical relationship that is confirmed with ecological validity.



Definition of Learning Disability

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A student with a learning disability is one who:

- (i) Has been determined through a variety of assessment tools and strategies to meet the criteria for a specific learning disability as stated in 34 CFR, §300.8(c)(10), in accordance with the provisions in 34 CFR, §300.307-300.311; and
- (ii) <u>Does not achieve adequately for the child's age or meet state-approved grade-level standards</u> in oral expression, listening comprehension, written expression, basic reading skill, reading fluency skills, reading comprehension, mathematics calculation, or mathematics problem solving when provided appropriate instruction, as indicated by performance on multiple measures such as in-class tests; grade average over time (e.g. six weeks, semester); norm- or criterion-referenced tests; statewide assessments; or a process based on the child's response to scientific, research-based intervention; and
- (I) <u>Does not make sufficient progress</u> when provided a process based on the child's response to scientific, research-based intervention (as defined in 20 USC, §7801(37)), as indicated by the child's performance relative to the performance of the child's peers on repeated, curriculum-based assessments of achievement at reasonable intervals, reflecting student progress during classroom instruction; or
- (II) Exhibits a pattern of strengths and weaknesses in performance, achievement, or both relative to age, grade-level standards, or intellectual ability, as indicated by significant variance among specific areas of cognitive function, such as working memory and verbal comprehension, or between specific areas of cognitive function and academic achievement.

Questions to consider- If all questions are answered in the affirmative then <u>SLD is highly probable.</u>

- Is a normative academic deficit present that reflects an inability to achieve according to grade-or-age level expectations despite adequate instruction and supplemental intervention?
- Within the student's profile is there a pattern of strengths and weaknesses in processing? If present, does the pattern occur within an overall profile that is within normal limits?
- Have extraneous factors been ruled out as primary causes for deficits (i.e. attendance, behavior problems, sociological, language, and motivation)?
- Is there a relationship between the cognitive deficit(s) and the academic deficit?
- · Have these deficits caused a significant interference with academic performance?



Cross Battery Principles

Principle 1 – Selecting a comprehensive ability battery as the core of the assessment. • Tests that are most responsive to referral concerns

Principle 2 – Use Norm based composites from a single battery whenever possible to represent broad CHC abilities.

• Use test composites when they are interpretable. Use XBA composites as an alternative when needed.

Cross Battery Principles

Principle 3 – When constructing Broad & Narrow CHC clusters, select tests that have been classified using an acceptable method.

 $^{\circ}\,$ Use tests that validly measure what you think they measure.

Principle 4 – Use 2 different indicators of a broad ability to create a composite.

 $^\circ\,$ If the core battery selected has only 1 or NO measures of the broad ability, select another test to supplement.



Table 1.4.	Broad and Narro	ow CHC Ability Repre	sentation on Sev	en Current In	telligence Ba	tteries	
	Gf	Gc	Gv	Gsm	Glr	Ga	Gs
WISC-IV	Matrix Reasoning (I) Picture Concepts (I)	Vocabulary (VL) Information (K0) Similarities (VL, Gf:I) Comprehension (K0) Word Reasoning (VL, Gf:I)	Block Design (Vz) Picture Completion (CF, <i>Gc</i> :K0)	Digit Span (MS, MW) Letter- Number Sequencing (MW) Arithmetic (MW; <i>Gf</i> : RQ)	Not Measured	Not Measured	Symbol Search (P) Coding (R9 Cancellation (P)
WAIS-IV	Matrix Reasoning (I) Figure Weights (RQ)	Vocabulary (VL) Information (K0) Similarities (VL, <i>G</i> fI) Comprehension (K0)	Block Design (Vz) Picture Completion (CF, <i>Gc</i> :K0) Visual Puzzles (Vz)	Digit Span (MS, MW) Letter- Number Sequencing (MW) Arithmetic (MW; <i>Gf</i> : RQ)	Not Measured	Not Measured	Symbol Search (P) Coding (R9 Cancellation (P)
WPPSI-IV	Matrix Reasoning (I)	Picture Concepts (Gc: K0, Gf:I) Vocabulary (VL) Information (K0) Similarities (VL, Gf:I) Comprehension (K0)	Block Design (Vz) Object Assembly (CS) Picture Memory (MV)	Not Measured	Not Measured	Not Measured	Animal Coding (R9 Bug Search (P) Cancellation (P) <i>(continued)</i>

	Gf	Gc	Gv	Gsm	Glr	Ga	Gs
		Receptive Vocabulary (VL) Picture Naming (VL)	Zoo Locations (MV)				
KABC-II	Pattern Reasoning (I; Gr:Vz) ¹ Story Completion (RG, $Gc:K0$) ²	Expressive Vocabulary (VL) Verbal Knowledge (VL, K0) Riddles (VL, <i>Gf</i> :RG)	Face Recognition (MV) Triangles (Vz) Gestalt Closure (CS) Royer (SS, <i>Gf</i> : RG) Block Counting (Vz) Conceptual Thinking (Vz; <i>Gf</i> :1)	Number Recall (MS) Word Order (MS, MW) Hand Movements (MS, <i>Gir</i> . MV)	Atlantis (MA) Rebus (MA) Atlantis Delayed (MA) Rebus Delayed (MA)	Not Measured	Not Measured
WJ III NU	Concept Formation (I) Analysis- Synthesis (RG)	Verbal Comprehension (VL, <i>Gf</i> I) General Information (K0)	Spatial Relations (Vz) Picture Recognition (MV) Planning (SS, <i>Gf</i> :RG)	Memory for Words (MS) Numbers Reversed (MW) Auditory Working	Visual- Auditory Learning (MA) Retrieval Fluency (FI)	Sound Blending (PC) Auditory Attention (UR) Incomplete Word((PC))	Visual Matching (P) Decision Speed (P) Pair Cancellation

				Memory (MW)	Visual-Audite Learning Del (MA) Rapid Picture Naming (NA; <i>Gs</i> : R9)	ory layed	
585	Nonverbal Fluid Reasoning (I; Gi) Verbal Fluid Reasoning (I, RG, GcCM) Nonverbal Quantitative Reasoning (RQ, Gq:A3) Verbal Quantitative Reasoning (RQ, Gq:A3)	Nonverbal Knowledge (K0, LS, GfRG) Verbal Knowledge (VL,K0)	Nonverbal Visual-Spatial Processing (Vz) Verbal Visual- Spatial Processing (Vz, <i>Ge</i> :VL, K0)	Nonverbal Working (MS, MW) Verbal Working Memory (MS, MW)	Not Measured	Not Measured	Not Measured
DAS-II ປ	Matrices (I) Picture Similarities (I) Sequential & Quantitative Reasoning (RQ)	Early Number Concepts (VL, <i>Gq</i> : A3) Naming Vocabulary (VL)	Pattern Construction (Vz) Recall of Designs (MV)	Recall of Digits- Forward (MS) Recall of Digits-	Rapid Naming (NA; <i>Gs</i> : R9) ³ Recall of Objects-	Phonological Processing (PC)	Speed of Information Processing (P) (continued)
		Word Definitions (VL) Verbal Comprehension (LS) Verbal Similarities (VI - GFI)	Recognition of Pictures (MV) Copying (Vz) Matching Letter-Like Forms (Vz)	Backward (MW) Recall of Sequential Order (MW)	Immediate (M6) Recall of Objects- Delayed (M6)		

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AS-II 🗸	✓	✓	✓	✓	U	U					-
ABC-II 🖌	\checkmark	\checkmark	U	U							-
TEA-II	✓			✓	U	U	✓	U			-
VIAT-III U	~			U	U	U	✓	U			-
VJ III/NU ACH U	✓			U	U	U	✓	✓			-
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Cross Battery Principles

Principle 5 – When crossing batteries select tests normed and developed within a few years of one another to reduce the Flynn effect.

- Flynn effect The substantial increase in average scores on intelligence tests globally as measured since 1930.
- $^\circ\,$ All subtests within the XBA software have been normed within 10 years of one another.

Principle 6 – Select tests from the smallest number of batteries to avoid the effects of different norm samples.

Minimize unintended errors in measurement & comparison

Cross Battery Principles

Principle 7 – Establish ecological validity for any and all test performance that suggest weakness or deficit.

- Find evidence of how the weakness manifests in daily living most likely with academic achievement.
- $^\circ\,$ Make clear connections between cognitive dysfunction and the educational impact of the dysfunction in classroom performance.





Exclusionary Factors

Vision

Environmental/Economic Factors

Hearing

Cultural/Linguistic Factors

Motor Functioning

Physical/Health Factors

Cognitive and Adaptive Functioning

Instructional Factors

Social-Emotional/Psychological Factors



Enabling Macro Settings

- 1. From the top menu or Office button, click the "Excel Options" button
- 2. Click on the "Trust Center" option
- 3. Click on "Trust Center Settings"
- 4. Click on "Macro Settings"

5. Select "Enable all macros (not recommended; potentially dangerous code can run)" and click "OK" to exit.

These are general instructions for macro settings and the actual steps may vary based on your particular version of Excel. Please refer to the help menu in Excel for guidance on adjusting macros and security settings if these steps do not seem to apply.

Region One

Cross Battery Step by Step

- 1. Once you have determined language proficiency and know enough about the student's background select a cognitive battery that is appropriate for the student
- 2. Identify broad abilities that are/are not measured by the selected battery
 - Each of the narrow abilities represented in the cluster must be qualitatively different
- 3. Identify narrow abilities that are/are not measured by the battery
 - When referrals are specific to reading, math and written language, the narrows that best measure these should be utilized

Definition Definition OPEN Provide The Department of the space provided. The evaluator name is optional, however, all other information is required. Then click the "Scate New Record" button followed button to begin new data entry. To open and activate are existing data record, select if from the drop down menu below. Definition Information	Guide	Cross-Battery Ass	essment Softw	are System	n (X-BASS®	v1.0)
Begin by entering the examine's name, date of evaluation, date of birth, and grade in the spaces provided. The evaluator name is optional, however, all other information is required. Then click the "Create New Record" button followed by the Index button to begin new data entry. To open and activate an existing data record, select if from the drop down menu below. NOTE: THE PROGRAM WILL NOT OPERATE IF A NAME IS NOT ENTERED. 2. CREATE NEW DATA RECORD Viname of Examinee: Lennifer 10/20/2014 mm/dd/ynyy Name of Evaluator: Dawn Flanagan 2. ENTER DATES/GRADE 2. CREATE NEW DATA RECORD Viname of Evaluator: Dawn Flanagan *Date of Birth: 10/20/2014 mm/dd/ynyy required information *required information K1:122. or 12+ NO AC TIVE DATA RECORD To OPEN and activate a saved record from the drabase, select if from the dropdown menu on the right. Data records are listed in alphabetical order by first name. Once select all data absord on will be polated in the appropriate locations. Click be builder build and the opprogram click the "Save Current Record" button and continue working. Frequent saves are recommended. Save Current Record To SAVE or update the current data record, click the blue "Save Current Record" button and continue working. Frequent saves are recommended. Save Current Record To SAVE or update the current data record, click the blue "Save Current Record" button and continue working. Frequent saves are recommended. Save Current Record T		Conceptualization by D.P.	Dhic Info and Data Flanagan, S.O. Ortiz, V.C. Alfon	Record Mana so; Programming by S.O.	agement . Ortiz and A.M. Dynda	
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Steps cont'd

- 4. Administer and Score selected Battery and Supplemental Test
 - All subtests must be administered following the assessment procedures

5. Determine if the cluster scores a cohesive

- Composite Cohesion is based on:
 - The magnitude of the Standard Deviation score difference
 - Options:
 - Input the scores into the either the XBA Analyzer or the Data Organizer depending on whether or not you need to follow up on the cluster score
 - $^\circ$ $\hfill Use the information given to determine whether clusters are cohesive$
 - Keep in mind: the Broad Ability Composite must be considered COHESIVE to be a likely indicator of the abilities it represents
 - $^\circ$ $\,$ $\,$ Check off the subtests that need to be moved to the XBA Analyzer
 - Click on the blue button "Transfer to Data Organizer" if you do not need to follow up on the scores



Steps cont's

- 6. If there is any clusters that yielded non cohesive scores
 - Follow up on the lower score, by giving another measure of that narrow ability
 - If the third score obtained forms a cohesive score with the <u>lower narrow</u> ability, then a Narrow Ability Composite can be reported
- 7. Once all your scores are cohesive then input them into the Culture-Language Interpretive Matrix (C-LIM v2.0)---for bilingual students

Interpretation of Broad CHC Ability

Broad Ability Constructs are represented by at least 2 qualitatively different narrow subtests

The Broad Ability Composite must be considered COHESIVE to be a likely indicator of the abilities it represents.

Composite Cohesion can be calculated from 2, 3, or 4, subtests entered.

Composite Cohesion is based on

- The magnitude of the Standard Deviation score difference
- The rarity of the difference that occurred

Narrow CHC Ability Interpretation

Occurs when a Non-Cohesive Broad Ability is obtained & the examiner chooses to follow up on the lower score, by giving another measure of that narrow ability

If the third score obtained forms a cohesive score with the lower narrow ability, then a Narrow Ability Composite can be reported.

The Divergent score is considered a relative strength



Cohesion

Cohesion asks two primary questions: Is the variability between the subtests making up the composite significant or substantial? (more than 2/3 SD 10 points)

Is the variability between the subtests making up the composite infrequent or uncommon? (occurs in less than 10% of the population)



XBA-CHC Test List	Cross-Battery Assessmer	It Software System (X-BASS® v1.0)
C.11MSimmary	XBA COMPOSIT Conceptualization by D.P. Flanagan, S.O.	e and lest Score Analyzer Vibranius Victoria XBraniuszer Graph Ortiz, V.C. Alfonso; Programming by S.O. Ortiz and A.M. Dynda C. LIMAnslurer
Name: Eddle	Copyright © 2015 Samuel O. Ortiz, D.	Awn P. Flanagan & Vincent C. Alfonso. All Rights Reserved
WISC-V WAIS-	WPPSI-IV WIAT-III WJ IV COG WJ	IVACH W/IVOL KABCHI KTEA-3 CAS2 DAS-II S85
CRYSTALLIZED INTELLIGENCE (Gc) (check these boxes to select score for integrated	reph) Clear Data Enter scores Standard Score Analyses	FLUID REASONING (Gf) Clear Data Enter Converted Composite Standard Score Analyses
WISC-V Similarities (Gc/U,Gf.) WISC-V Vocabulary (Gc/U) WISC-V Information (Gc/K0) (TPA-3 Spoken Analogies (Gc/U,Gf.))	5 75 A 9 95 B 10 100 B 6 80 A	
NOT COHE SIVE: Use two, 2-subtest	XBA composites SS: 74 97	
Use Test Comp Score complexitions and interf sation: Because the difference between in highest and scores is not considered cohesive indicioning th good summary of the bibly is interded for composite (Comp A) that may be interpreted in cohesive compasite (Comp A) that may be interpreted in	PR: 4 12 lowest scores entered is greater than 1 and 1/3 50, this set of 1 a composite based on all four scores is unlikely to provide a scene. I instead, the volo lowest scores form one cohesive enanglully and the two highest scores also form another reted meaningfully;	Use Test Comp Use XIA Comp(s) Score configuration and interpretation:
/		AUDITORY PROCESSING (Ga) Converted (check these boxes to select score for integrated graph) Converted Score Standard Analyses
		KTEA-3 Phonological Processing (BRS;Ga:PC) 102 A
		CTOPP-2 Elision (Ga:PC) 8 90 A
	KO	CTOPP-2 Blending Words (Ga:PC)
		COHE SIVE: Use one, 3-subtest XBA composite SS: 97
		Use Test Como Use XBA Comp(s) PR: 41
imilaritie	prehensic	Score configuration and merpretation: The difference between thy higher and lowest scores is less than 150, therefore, they form a composite that is considered cohesive and kikely a good summary of the set of theoretically related abilities that comprise it. Interpret the composit as an adequate estimate of the ability that it is intended to measure.
v _ >	Com	



Achievement

Assess using a battery that is appropriate for the student

Assess in the students dominant language

If the student speaks more than one language assess in both languages if possible

Use multiple sources of data to determine achievement weaknesses

- Previous evaluation
- Work Samples
- Error Analysis
- Parent/Teacher/Student report
- Intervention Data
- Additional Testing

Region One

Pattern of Strengths and Weaknesses

- 8. Once you have determined that the students' cognitive scores are valid using the XBA Analyzer for those scores that needed follow up
 - and once all achievement assessments have been administered, then the scores can be transferred to the Data Organizer
 - Select Sufficiency in the Data Organizer (strength or weakness) for all scores including cognitive and achievement scores
 - Proceed to PSW!
 - g-Value will show green, yellow, or red
 - The g-value remains an indication of the likelihood that the individual has at least average overall ability to think and reason.
 - the PSW will give you an Facilitating Cognitive Composite (FCC)
 - provides an estimate of overall intellectual ability. It is similar to a full scale IQ score...BUT it is the aggregate of ONLY the intact
 cognitive abilities measured, factoring out the potential negative impact of the identified cognitive weaknesses.
 - and a Inhibiting Cognitive Composite (ICC)
 - the ICC is an aggregate of the abilities that were judged by the evaluator to be "weaknesses" for the individual

XBA Analyzer Integrated Graph C-LIM Summary Name: Eddle	Sattery Assessment So XBA Score Summary Aceptualization by D.P. Flanagan, S.O. Ortiz, V.C. Copyright © 2015 Samuel O. Ortiz, Dawn P. Fla Age: 11 years 10 month(s)	ftware System (X-BASS® v1.0) S&W Indicator yand Data Organizer Data Organizer Allonso; Programming by S.O. Ortiz and A.M. Dynda CLIM Analyzer orade: 6 Date: 10/10/2014	
WISC V WAIS IV WOPSI			
WISC/V WASHV WPSH	WATHIN WITCOO WITCHCIT		
The purpose of this tab is to organize composites and sub names and scores can not be entered into this tab direc considered the best stimmset of CH abilities, scadem PSW analyses by clicking on the check box to the right of Gem) and neuropsychological (e.g. Executive Functions Organizer Graph' to view or print the informat	Guidelines for Selecting Dest Con sts to assist in the selection of those to be used f Rather, this tab provides a summary of test bat reas, and selected neuropsychological domains, sch one in any domain for which there are data. Prthographic Processing) domains and up to three n on this tab. For more information on how to se	poote Scores for SLD Evaluation or evaluation of the pattern of strengths and weaknesses in the PSW Analyzer.Test ery and XBA composites that were transferred from other tabs because they were Use this tab to sate table can do subset scores you would like to use in Use this tab to sate that composites for each of the CHC broad shalling (e.g., GC, GT, scores for each of the academic areas. Note that you may also click on the "Data lectthe best scores for use in PSW analyses, click the button to the right.	
After you have m	le your selections, click the "S&W Indicator" but	ton to continue with additional steps for conducting PSW analyses.	
CRYSTALLIZED INTEL	SENCE (GC)	FLUID REASONING (G7)	
MIRC V Varbal Comprehensive Induced and American Street Americ	04 Tast Came Clear Test Come	Indicate which composite(s) you wish to use for now enalyses. No more than two scores can be selected for this domain.	
WISC-V Verbal Comprehension index (GC.VL)	84 Test comp Citor rest comp	WISC-V Fluid Reasoning lidex 97 V est comp Citical of FCH comp	
Crystallized Intelligence - XBA Gc Crystallized Intelligence - XBA Gc	74	Clear XBA Comp(s)	
LONG-TERM STORAGE AN	RETRIEVAL (GIr)	SHORT-TERM MEMORY (Gsm)	
Indicate which composite(s) you wish to use for PSW analyses. No	ore than two scores can be selected for this domain.	Indicate which composite(s) you wish to use for PSW analyses. No more than makes scores can be selected for this domain.	
Long Term Storage and Retrieval - XBA Gir	94 Clear Gir Test Comp Clear XBA Comp(s)	WISC-V Working Memory Index (Gsm) 85 Free Comp Citerr Citerr Citer (Sam Test Citerr XBA Comp(s)	
VISUAL PROCESS	IG (Gv)	AUDITORY PROCESSING (Ga)	
Indicate which composite(s) you wish to use for PSW analyses. No	ore than two scores can be selected 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.	
WISC-V Visual Spatial Index (Gv:Vz)	97 Vest Comp Clear Gv Test Comp	Clear Go Test Comp	
	Clear XBA Comp(s)	Audtory Processing - XBA Ga 97 Comp Clear XBA Comp(s)	
PROCESSING SP	D (Gs)	DOMAIN SPECIFIC KNOWLEDGE (Gkn)	N-1
Indicate which composite(s) you wish to use for PSW analyses. No	ore than two scores can be selected 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.	
WISC-V Processing Speed Index	103 Test Comp Clear Gs Test Comp	Clear Gkn Test	Region One
	Clear XBA Comp(s)	Clear XBA Comp(s)	Education Service Center

XBA Analyzer Cross	-Battery Assessment Sof	tware System (X-BASS [®] v1		
Integrated Graph	XBA Score Summary	and Data Organizer	Data Organizer Graph	
C-LIM Summary	Conceptualization by D.P. Flanagan, S.O. Ortiz, V.C.	Alfonso; Programming by S.O. Ortiz and A.M. Dynda	C-LIM Analyzer	
Name: Andrew	Copyright © 2015 Samuel O. Ortiz, Dawn P. Flar	agan & Vincent C. Alfonso. All Rights Reserved Grade: 4 Date: 10/20/2014		
WISC-V WAIS-IV WPPS				
	Guidelines for Selecting Best Com	posite scores for SLD Evaluation		
The purpose of this tab is to organize composites and sr names and scores can not be entered into this tab dire considered the best estimates of CHc abilities, acade PSW analyses by clicking on the check box to the right c Gsm) and neuropsychological (e.g., Executive Functio Organizer Graph ⁺ to view or print the inform	ubtests to assist in the selection of those to be used fo cttly. Rather, this tab provides a summary of test batte mic areas, and selected neuropsychological domains. of each one in any domain for which there are data. Y ms, Orthographic Processing (domains and up to three ation on this tab. For more information on how to sel	evaluation of the pattern of strengths and weaknesses i ry and XBA composites that were transferred from other i use this tai to select the composites and subtest scores y ou may select up to two composites for each of the CHC b corres for each of the academic areas. Note that you may ext the best scores for use in PSW analyses, click the butto	n the PSW Analyzer. Test abs because they were abs outwork like to be a the road ability (e.g., G., G/, also click on the "Data n to the right.	
Grw-R: BASIC READIN	IG SKILLS (BRS)	Grw-R: READING COMP	REHENSION (RC)	
Indicate which composite or subtests you wish to use for PSW an	halyses. All three scores may be selected for this domain.	Indicate which composite or subtests you wish to use for PSW an	alyses. All three scores may be selected for this domain.	
KTEA-3 Letter and Word Recognition (BRS;Grw-R:RD)	75 Vubtest Clear Score 1 Clear Score 2 Clear Score 3	KTEA-3 Reading Comprehension (RC,Grw-R.RC)	78 Crow Score 1 Crow Score 2 Crow Score 3	
Grw-R: READING F	LUENCY (RF)	Grw-W: WRITTEN EX	PRESSION (WE)	
Indicate which composite or subtests you wish to use for PSW an	halyses. All three cores may be selected for this domain.	Indicate which composite or subtests you wish to use for PSW an	alyses. All the cores may be selected for this domain.	
KTEA-3 Reading Fluency	87 Comp Clear Score 1 Clear Score 2 Clear Score 3	KTEA-3 Written Language	90 Vest Comp Clear Score 1 Clear Score 2 Clear Score 3	
Gq: MATH CALCUL	LATION (MC)	Gq: MATH PROBLEM	SOLVING (MPS)	
Indicate which composite or subtests you wish to use for PSW an	halyses. All three stores may be selected for this domain.	Indicate which composite or subtests you wish to use for PSW an	alyses. All three cores may be selected for this domain.	
KTEA-3 Math Computation (MC;Qq:A3)	105 Subtest Clear Score 1 Clear Score 2 Clear Score 3	KTEA-3 Math Concepts & Application (MPS;Gq:A3;KM;Gf:RQ)	90 Subject Clear Scare 1 Clear Scare 2 Clear Scare 3	
ORAL EXPRES	SION (OE)	LISTENING COMPRE	HENSION (LC)	
Indicate which composite or subtests you wish to use for PSW an	alyses. All three cores may be selected for this domain.	Indicate which composite or subtests you wish to use for PSW an	alyses. All the cores may be selected for this domain.	
KTEA-3 Oral Fluency	97 Gear Score 1 Clear Score 2	KTEA-3 Listening Comprehension (LC,Gc:LS)	98 V Subtest Clear Score 1	on One Service Center
	Clear Score 3		Clear Score 3	



CellMSummary Conjegitality and year	Analyzer
Name: Eddle Age: 11 years 10 month(s) Grade: 6 Date: 10/10/2014 WISC-V WAIS-IV WIAT-III WINCOG WINVACH WINVOL KABC-II KTEA-3 CAS2 DAS-II S85	
WISC-V WAIS-IV WPSI-IV WIAT-III WJ IV COG WJ IV ACH WJ IV OL KABC-II KTEA-3 CAS2 DAS-II S85	
Determination of Strengths and Weaknesses Indicate whether the CHC domains (highlighted in blue) and neuropsychological domains (highlighted in blue) per persent strengths or weaknesses for the individual. Determination of strengths and weaknesses is 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. Typically, scores that fall in the evaluator based on what is known about the examinee. In general, ability and processing strengths facilitate learning and academic performance. Typically, scores that fall in the evaluator based on what is known about the examinee. In general, ability and processing strengths or weaknesses for the individual. Achievement standard scores that fall are been weaknesses. After two laws made by our selections, click the "SWA Achie Summary" button to considered Weaknesse.	osites uide
CRYSTALLIZED INTELLIGENCE (Gc) FLUID REASONING (G/)	
Crystallized Intelligence - XBA Gc Comp A 74 Osterigth © weakness WISC-V Fluid Reasoning Index Test Comp 91 © strength O	>weakness
Crystallized Intelligence - XBA Gc Comp B 97 @strength Oweakness	weakness
LONG-TERM STORAGE AND RETRIEVAL (<i>dir</i>) SHORT-TERM MEMORY (<i>Gsm</i>)	
Long Term Storage and Retrieval - XBA Gir Comp 94 🛛 🕹 strength 🕜 weakness WISC-V Working Memory Index (Gsm) Test Comp 85 🗘 strength 🛞	/weakness
	/weakness
VISUAL PROCESSING (Gv) AUDITORY PROCESSING (Ga)	
WISC-V Visual Spatial Index (Gr/V2) Test Comp 97 @strength weakness Auditory Processing -XBA Ga Comp 97 @strength	/weakness
○ strength ○ weakness ○ strength ○	weakness
PROCESSING SPEED (Gs) DOMAIN SPECIFIC KNOWLEDGE (Gkm)	
WISC-V Processing Speed Index Test Comp 103 © strength () weakness () strength ()	weakness

Name: Andrew	Age:	9 years 0 mor	nth(s)	Grade: 4	Date:	10/20/2014	
WISC-V WAIS-IV WPPSI-IV	WIAT-III	WJ IV CO	G WJIVACH	WJIVOL KABC-II KTEA-3 CAS2	DAS-II	SB5	
Indicate whether the CHC domains (highlighted in blue) an Determination of strengths and weaknesses is a judgmen facilitate learning and academic performance, whereas w faalitate learning and scores that fail below average or low weaknesses for the individual. Achievement standard sco After you how	Det nd neurops t that is ma eaknesses wer likely ir ores that an we made yo	termination of sychological do ide by the evalu- inhibit learning hhibit learning e about 90 or h pur selections, o	of Strengths and omains (highlighter uator based on wh gand academic pe . Also, indicate wh higher are conside click the "PSW-Al	Weaknesses din beige represent strengths or weaknesses for the individual. natis known about the examinee. In general, ability and processing rformance. Typically, scores that fall in the average range or higher i hether the academic areas (highlighted in purple) represent strength red strengths and scores that fall eallow 90 are considered weakness Data Summary" button to continue with the PSW analysis.	itrengths ikely s or ies.	PSW-A (Selecti	Composites ion Guide
Grw-R: BASIC READING SKILI	S (BRS)			Grw-R: READING COMPREHEN	SION (RC)		
KTEA-3 Letter and Word Recognition (BRS;Grw-R:RD) Subtest	75	Ostrength	weakness	KTEA-3 Reading Comprehension (RC;Grw-R:RC) Sublest	78	Ostrength	(i) weakness
		Ostrength	() weakness			Ostrength	Oweakness
		Strength	() weakness			Ostrength	Oweakness
Grw-R: READING FLUENCY	(RF)	_		Grw-W: WRITTEN EXPRESSI	DN (WE)		
KTEA-3 Reading Fluency Test Comp	87	Ostrength	weakness	KTEA-3 Written Language Test Comp	90	() strength	() weakness
		Ostrength	() weakness			Ostrength	Oweakness
		Ostrength	() weakness			Ostrength	Oweakness
Gq: MATH CALCULATION	(MC)			Gq: MATH PROBLEM SOLVIN	G (MPS)		
KTEA-3 Math Computation (MC;Gq:A3) Subtest	105	() strength	() weakness	KTEA-3 Math Concepts & Application (MPS;Gq:A3,KM;Gf:RQ) Subtest	90	() strength	() weakness
		Ostrength	() weakness			() strength	() weakness
		Ostrength	() weakness			() strength	() weakness
ORAL EXPRESSION (O	E)			LISTENING COMPREHENSIO	N (LC)		
KTEA-3 Oral Fluency Test Comp	97	() strength	() weakness	KTEA-3 Listening Comprehension (LC;Gc:LS) Subtest	98	() strength	() weakness
		Ostrength	() weakness			Ostrength	() weakness
		Strength	() weakness) strength	🔾 weakness 🦻

VISC WISC WISC VIXLUI VIXCOB VIXLUI VIXCO VIXLUI VIXLUI<	Vict Victor	Name: Eddie	Grade	: 6	Date:	10/10/2014 Ag	e: 11 years 10 month(s)
Gc S Crystalized intelligence - XBA Gc Comp A 74 W Ge* Gr S Crystalized intelligence - XBA Gc Comp B 97 W Ge* Gr S WISC-V Huid Reasoning Index Test Comp 91 Gr S Long Term Storage and Retrieval - XBA Gr Comp 94 Gr S Long Term Storage and Retrieval - XBA Gr Comp 94 WISC-V Working Memory Index (Ism) 94 Carrent Comp 95 WISC-V Working Memory Index (Ism) 86 Gar Carrent Comp 95 WISC-V Working Memory Index (Ism) 97 Gar S Miscore Comp Gr S Audtory Processing - XBA Ga Comp 97 Gar S Inhibiting cognitive composite ICC Gr S Audtory Processing Speed Index Test Comp 97 Gar S Inhibiting cognitive composite ICC Gr S Miscore V Forcessing Speed Index Test Comp 97 Gar S Inhibiting cognitive composite ICC Gr S Miscore V Forcessing Speed Index Test Comp 103 103 Inhibiting cognitive composite ICC	Ge S Crystallized Intelligence - XBA Gc Comp A 74 W Ge* Ge S Crystallized Intelligence - XBA Gc Comp B 97 W Ge* Gf S VHSC-V Fluid Reasoning Index Test Comp 91 Intelligence and the substrate of	Areas of strength below form the Facilitating Cognitive Composite (FCC)	V WAISHV WPPSHV WATHI WJIVCOG CHC ABILITY DOMAINS	SCORE	Areas of weakness below form the Inhibiting Cognitive Composite (ICC).	KTEA-3 CAS2 DAS CHC Composites designated as strengths are use (top oval in the DD/C). Composites designated as v (bottom left oval in the DD/C). A weakness from a is also being used to compute	d for computation of the g-Value and the FCC eakinesses are used for computation of the ICC split domain can be used even when a strength the g-Value and the FCC
Gf S VVSL-V Hulb Readoning Index (Est Comp 91 the intended table individual possess at less and a statistic of the individual posses at less and a statistic of the individual posses at less and a statistic of the individual posses at less and a statistic of the individual posses at less and a statistic of the individual posses at less and a statistic of the individual posses at less and a statistic of the individual posses at less at less and a statistic of the indinity on eqgritity at less and a statistic of the individu	of S VISC-V HIB Reasoning mode: Lest Comp 91 the lifethood table possess at less records over all optimic solution. Gir S Long Term Storage and Retrieval - XBA Gir Comp 94 2a Facilitating Common Storage and Retrieval - XBA Gir Comp 95 WISC-V Working Memory Index (Gsm) Test Comp 85 Ger 97 95 Gir S WISC-V House Apablal Index (GrvV) Test Comp 97 97 96 Gir S Addtory Processing - XBA Gir Comp 97 97 100 100 Gir S WISC-V House Apablal Index (GrvV) Test Comp 97 100 100 100 100 Gir S WISC-V Processing Speed Index Test Comp 103 100 100 100 100	Ge S	Crystallized Intelligence - XBA Gc Comp A Crystallized Intelligence - XBA Gc Comp B	74 97	W Gc*	 g-Value: The g-Value reflects overall cognitive ability based on the CHC abilities judged by the evaluator to be "sufficient." The g-Value is interpreted according to 	0.84
Gir S Long Term Storage and Retrieval - XBA Gir Comp 94 28. Failtaining Commission Scoral general and indication scoral general and indication scoral general and indication scoral general and indication scored general and indindication scored general and indication s	Gir S Long Term Storage and Retrieval - XBA Gir Comp 94 24. Facilitating comprises constrained in Comp 95 WISC-V Working Memory Index (Gam) 85 Gam Campoint Composition Company C	Gf S	WISC-V Huka keasoning Index Test Comp	(91		the likelihood that an individual possesses at least average overall cognitive ability.	
Gr S VISC-V Visual Spatial Index (Gr/V2) Test Comp 97 Gr Component automation for disparation of the provide automation of the provide automation for disparation of the provide automation of the provide automation for disparation of the provide automation of the provide aut	WISC-V Working Memory Index (Gam) 85 Gem difference relative to a specific statement of complex ends well relative and specific stateme	Glr S	Long Term Storage and Retrieval - XBA Gir Comp	94		2a. Facilitating cognitive Comnosite (FCC Regresents an individual's overall general ability (strengths) and is used to evaluated	95
Gv S WISC-V Visual Spatial index (Gr/V2) Test Comp 97 21_bit Mittable Ability estimate (AA-e) under start and attractive of deute of or under start attractive of deute of deute of or under start attractive of deute of deute of or under start attractive of deute of deute of deute of deute start attractive of deute of deute of deute of deute of deute of deute start attractive of deute	Gr S WISC-V Visual Spatial index (Giv/V) Test Comp 97 20_cMITIGATE Ability estimate (AA-e) support of biological size of constant or a factor of understand and the size of constant or a factor of understand and the size of constant or a factor of constant or understand and the size of constant or constant or understand and the size of constant or understand		WISC-V Working Memory Index (Gsm) Test Comp	(85)-	W Gsm	differences relative to a specific operation of cognitive and codemic weathesses.	
Gar S Auditory Processing - XBA Ga Comp 97 3. Inhibiting Cognitive Composite (CC) 76 Gar S VISC.V Processing Speed Index Test Comp 103 3. Inhibiting cognitive composite and used on individual to main the speed and the composite and used on the speed and the composite and used on the speed and the composite and used on the speed and th	Ga S Auditory Processing - XBA Ga Comp 97 Ga S WISC-V Processing Speed Index Test Comp 103 Ga S WISC-V Processing Speed Index Test Comp 103 Ga S WISC-V Processing Speed Index Test Comp 103	Gv S	WISC-V Visual Spatial Index (Gv:Vz) Test Comp	97	>	2b Alternative Ability estimate (AA-e) or may enter an alternative Nue if desired or when the M-e is not believed to be the best estimate of general ability (not recommended).	
Gs S WISC-V Processing Speed Index Test Comp 103 endbed to dee to evaluate construction capitor and a cademic vestores. If there is only one capitor we weather the state of the cademic vestores. If there is only one capitor we weather the state of the cademic vestores. If there is cale and there is cale and there is cale and there is cale and the cademic vestores. If there is cale and there is cale and there is cale and the cademic vestores. If there is cale and there is cale and there is cale and there is cale and there is called and there is c	Gr S WISC-V Processing Speed Index Test Comp 103 and the statistical provide and the s	Ga S	Auditory Processing - XBA Ga Comp	97		3. Inhibiting Cognitive Compacite (ICC) Represents an aggregate of an individual's owned	76
		Gs S	WISC-V Processing Speed Index Test Comp	103		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.	

	Areas of strength represent part of individual's ov general abili	n below of the rerall ty.	ACHIEVEMENT/SLD DOMAINS	SCORE	Areas o below ma specifi deficits i	of weakness ay be used as c academic in the DD/C.
			KTEA-3 Letter and Word Recognition (BRS;Grw-R:RD) Subtest	75	w	Grw-R BRS
			KTEA-3 Reading Comprehension (RC;Grw-R:RC) Subtest	78	w	Grw-R RC
			KTEA-3 Reading Fluency Test Comp	87	w	Grw-W RF
	Grw-W WE	s	KTEA-3 Written Language Test Comp	90		
	Gq MC	s	KTEA-3 Math Computation (MC;Gq:A3) Subtest	105		
	Gq MPS	s	KTEA-3 Math Concepts & Application (MPS;Gq:A3,KM;Gf:RQ) Subtest	90		
	OE	s	KTEA-3 Oral Fluency Test Comp	97		
_	LC	s	KTEA-3 Listening Comprehension (LC;Gc:LS) Subtest	98		





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Questions to consider- If all questions are answered in the affirmative then <u>SLD is highly</u> <u>probable.</u>

- Is a normative academic deficit present that reflects an inability to achieve according to grade-or-age level expectations despite adequate instruction and supplemental intervention?
- Within the student's profile is there a pattern of strengths and weaknesses in processing? If present, does the pattern occur within an overall profile that is within normal limits?
- Have extraneous factors been ruled out as primary causes for deficits (i.e. attendance, behavior problems, sociological, language, and motivation)?
- Is there a relationship between the cognitive deficit(s) and the academic deficit?
- Have these deficits caused a significant interference with academic performance?

Think about...

Determine whether the identified condition of SLD actually impairs academic functioning to such an extent that special education services are necessary.



- 1. Normed or published before 2001
- 2. Year of normative data was gathered was not reported.
 - \circ Test not normed in the U.S.
 - Test did not include age-based norms.
 - $^\circ$ Test was not norm referenced or provide normative scores (standard, scaled, etc.)

Independent Practice

- •Open the software
- •Use the Score Report provided to you to go through all the steps
- •Work by yourself or with a partner
- •Decide which third subtest you need to give for the child and the score
- •Let me know when you have questions



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