

Pearson

Identifying Cognitive Strengths and Weaknesses: Using KABC-II Normative Update

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**Agenda**

- Overview of KABC-II<sup>NU</sup>
- Need for Normative Update
- Standardization
- Reliability and Validity
- Identifying Cognitive Strengths and Weaknesses

ABC-II<sup>TM</sup>

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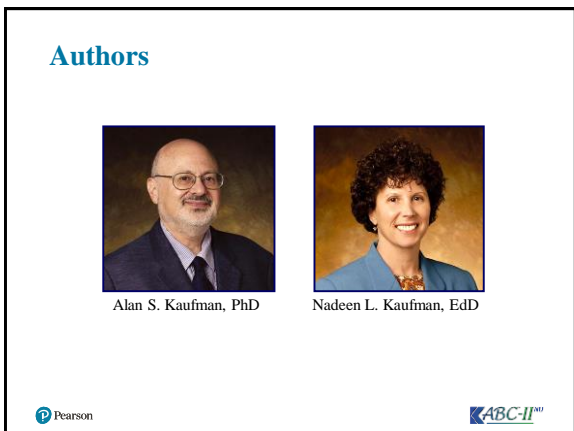
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**Authors**



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Pearson ABC-II<sup>TM</sup>

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## What is KABC-II<sup>NU</sup>?

- The KABC-II<sup>NU</sup> updates the normative data for the KABC-II, a culturally fair, individually administered measure of cognitive ability.
- The KABC-II was published in 2004; the Normative Update for the KABC-II will be published in March 2018.



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## Overview of KABC-II<sup>NU</sup>

Ages	Qualification Level	Administration	Scoring
3-18 years	C	Paper-and-Pencil	<ul style="list-style-type: none"><li>• Web-based (Q-Global) Scoring</li><li>• Manual Scoring</li></ul>



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## Need for Normative Update

Changes in US Demographics, Curriculum, and Educational Practices

Technology Leading to Changes in the Curriculum and in Educational Planning

Impact of the Flynn Effect



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### Materials for KABC-II<sup>NU</sup>

- KABC-II easels, manual, stimulus and manipulative materials and record forms.
- KABC-II<sup>NU</sup> Normative Update Manual Supplement.



**KABC-II<sup>NU</sup>**  
 Kaufman Assessment Battery for Children,  
 Second Edition  
 Normative Update

Manual Supplement **NEW!**

KABC-II NU Record Form

Pearson **KABC-II<sup>NU</sup>**

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### Test Structure

Ages 3–18	Ages 4–18
<b>3 Global Scales</b>	<b>4 or 5 Scales</b>
<ul style="list-style-type: none"> <li>• Fluid-Crystallized Index (FCI)</li> <li>• Mental Processing Index (MPI)</li> <li>• Nonverbal Index (NVI)</li> </ul>	<ul style="list-style-type: none"> <li>• Sequential/Gsm</li> <li>• Simultaneous/Gv</li> <li>• Learning/Glr</li> <li>• Knowledge/Gc</li> <li>• Planning/Gf (ages 7–18 only)</li> </ul>

Three age-based core batteries that vary slightly in subtest and scale composition.

18 Subtests
1 Atlantis
2 Conceptual Thinking
3 Face Recognition
4 Story Completion
5 Number Recall
6 Gestalt Closure
7 Rover
8 Atlantis Delayed
9 Expressive Vocabulary
10 Verbal Knowledge
11 Rabus
12 Tangles
13 Block Counting
14 World Order
15 Pattern Reasoning
16 Hand Movements
17 Rabus Delayed
18 Riddles

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### Dual Theoretical Foundation of KABC-II Scales and Global Scales

Luria Term	CHC Term	KABC-II Scale
Sequential Processing	Short-term Memory (Gsm)	Sequential (Gsm)
Simultaneous Processing	Visual Processing (Gv)	Simultaneous/Gv
Learning Ability	Long-term Storage and retrieval (Glr)	Learning/Glr
Planning Ability	Fluid Reasoning (Gf)	Planning/Gf
----	Crystallized Ability (Gc)	Knowledge/Gc
<b>Mental Processing Index (MPI)</b>	<b>Fluid-Crystallized Index (FCI)</b>	

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## Updated Theoretical Foundations

Cattell-Horn-Carroll (CHC)  
psychometric theory of cognitive  
abilities.

Luria's neuropsychological  
theory of processing.



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## Clinical Applications of KABC-II<sup>NU</sup>

SLD Identification

Processing Strengths and  
Weaknesses

Culturally and Linguistically  
Diverse Groups

Giftedness

Preschool children



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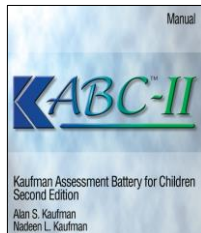
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## Subtest Administration

- The content and structure of the KABC-II<sup>NU</sup> test remains identical to the KABC-II.
- Examiners should refer to the KABC-II Manual for information regarding the determination of start points, discontinue rules, and time bonuses.



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### Norm Sample

- National sample collected January–July 2017.
- Cases collected as part of validity studies for standardization of KTEA-3 and WISC-V.
- N = 700



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### Representativeness of Children From Various Special Education Classifications

- Intellectual Disability
- Gifted/Talented
- Attention-Deficit/Hyperactivity Disorder
- Emotional/Behavioral Disturbance
- Specific Learning Disability
- Speech/Language Impairment

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### Reliability of Normative Sample

Score	Average $r_{xx}$ (Ages 3–6)	Average $r_{xx}$ (Age 7–18)
Sequential/Gsm	.91	.91
Simultaneous/Gv	.95	.95
Learning/Glr	.98	.97
Planning/Gf	---	.91
Knowledge/Gc	.94	.96
Delayed Recall	.92	.95
<b>MPI</b>	.96	.97
<b>FCI</b>	.97	.98
<b>NVI</b>	.94	.95

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## Validity

- Evidence Based on Internal Structure
- Evidence Based on Relations With Other Variables (KABC, WISC-V, KTEA-3)




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## THEORETICAL APPROACHES TO INTERPRETATION: IDENTIFYING COGNITIVE STRENGTHS AND WEAKNESSES




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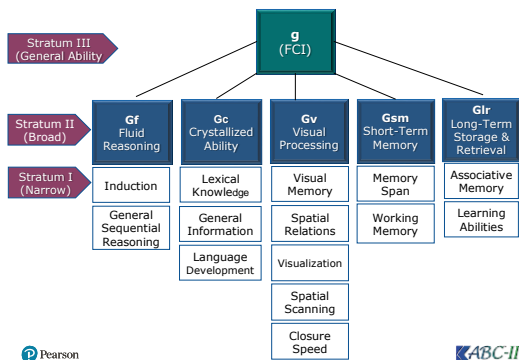
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### CHC Theory and KABC-II NU




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### Planning/Gf Index (Fluid Reasoning)

**Gf**  
Fluid Reasoning

Use of deliberate and controlled focused attention to solve novel problems that cannot be solved solely by using prior knowledge.

Induction

General Sequential Reasoning



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### Knowledge/Gc Index (Crystallized Ability)

**Gc**  
Crystallized Ability

Depth and breadth of declarative and procedural knowledge and skills of one's culture.

Lexical Knowledge

General Information

Language Development



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### Simultaneous/Gv Index (Visual-Spatial Processing)

**Gv**  
Visual Processing

Make use of simulated mental imagery to solve problems.

Visual Memory

Spatial Relations

Visualization

Spatial Scanning

Closure Speed



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### Sequential/Gsm Index (Short-Term Memory)

**Gsm**  
Short-Term  
Memory

Memory  
Span

Working  
Memory

Short-term memory refers solely to tasks that involve significant storage but only minimal processing; working memory suggests a more complex construct that consumes short-term memory.



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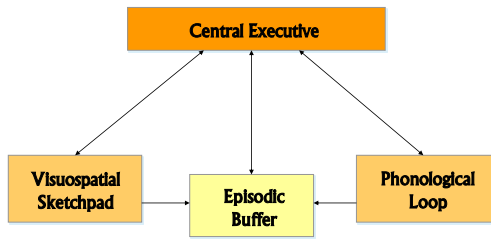
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### Working Memory Model



(Baddeley & Hitch, 1974; Baddeley, 2000)



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### Learning/Glr Index (Long-Term Storage and Retrieval)

**Glr**  
Long-Term Storage  
& Retrieval

Associative  
Memory

Learning  
Abilities

Ability to encode information (learning efficiency) and ability to retrieve information fluently (retrieval fluency).



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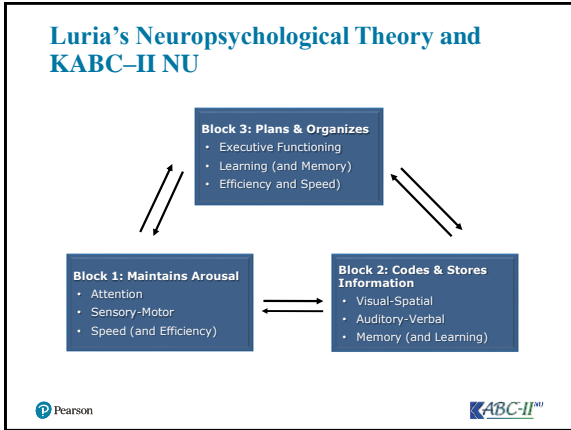
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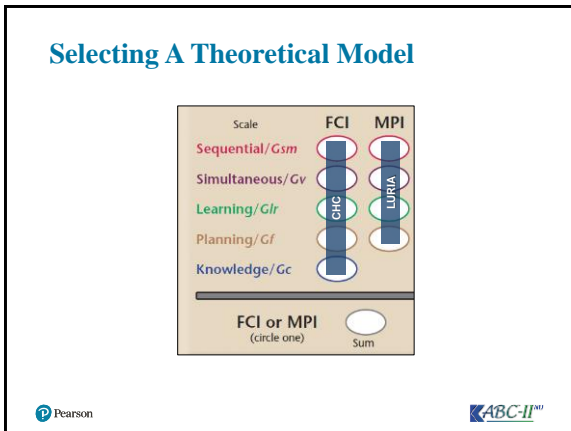
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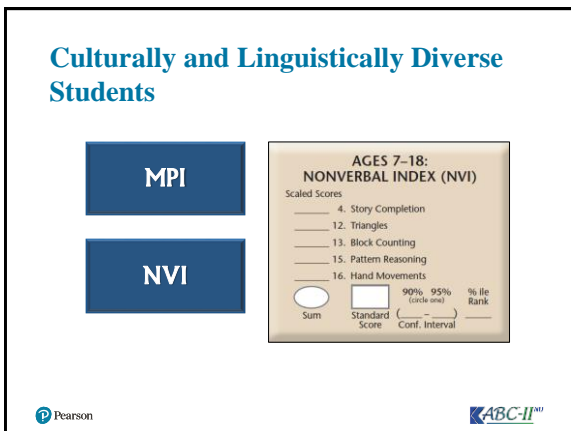
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KABC-II NU				
Scale/index	Scaled score	Standard score (95% CI)	Percentile rank	Qualitative descriptor
Number Recall	9		37	
Word Recall	8		25	
<b>Sequential /Gsm</b>		91 (84-99)	27	Average
Rover	12		75	
Block Counting	7		16	
(Gestalt Closure)	7		16	
(Triangles)	6		9	
<b>Simultaneous/Gvr</b>		97 (91-103)	42	Average
Atlantis	9		37	
Rebus	9		37	
(Atlantis Delayed)	11		63	
(Rebus Delayed)	8		25	
<b>Learning/Glr</b>		94 (89-99)	34	Average
Story Completion	8		25	
Pattern Reasoning	10		50	
<b>Planning/Gf</b>		93 (85-102)	32	Average
Verbal Knowledge	10		50	
Riddles	9		37	
(Expressive Vocabulary)	7		16	
<b>Knowledge/Gc</b>		97(92-102)	42	Average
Fluid-Crystallized Index (FCI)		93 (89-97)	32	Average

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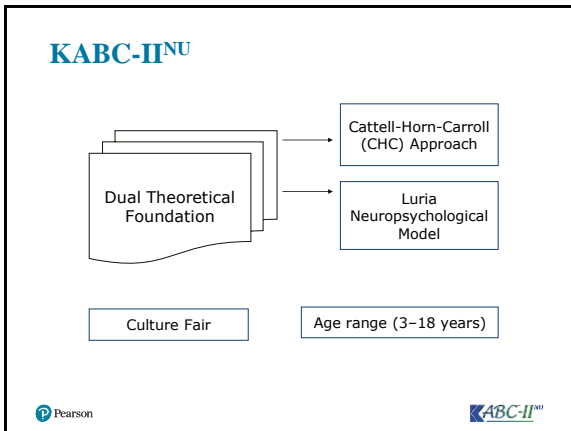
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**For More Information . . .**

**Coming Soon!** The KABC-II NU is now available for pre-order and will be shipped in March 2018.

**UPGRADE** To upgrade to the KABC-II NU, existing KABC-II customers only need to purchase the KABC-II NU Norm Update Supplement (item 25047).

[www.pearsonclinical.com](http://www.pearsonclinical.com)  
[www.pearsonclinical.ca](http://www.pearsonclinical.ca)

Pearson ABC-II<sup>TM</sup>

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