

Introducing the WISC-V Integrated  
Gloria Maccow, Ph.D., Assessment Training Consultant



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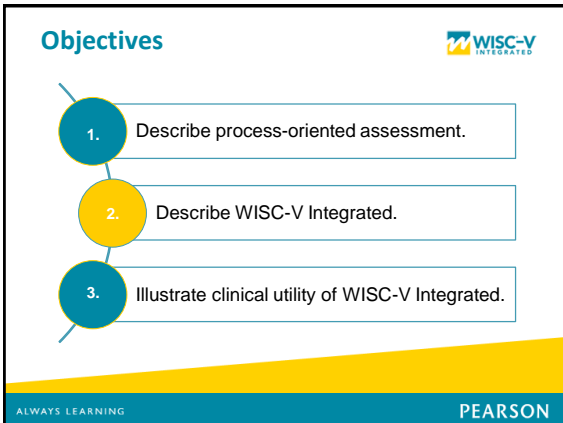
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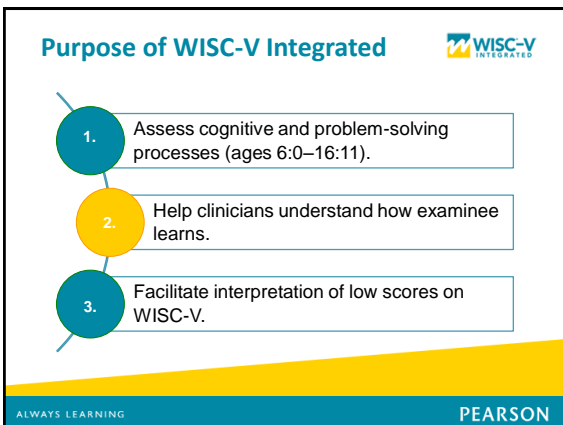
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Introducing the WISC-V Integrated  
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What is WISC-V Integrated? 

WISC-V Integrated:  
Process-Oriented Assessment

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Process-Oriented Assessment

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Everything Old is New Again . . . 

Careful, systematic observation of a child's problem-solving strategy (*process*) can yield richer and more useful information about cognitive functioning than simple right-wrong scoring of their final solution (*product*).

Heinz Werner. (1937). *Process and Achievement: A Basic Problem of Education and Developmental Psychology*.

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### Boston Process Approach



Edith Kaplan

Qualitative Evaluation of Test Performance

Quantitative Evaluation of Scores

1988

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### Utility of Process Scores



1. Provide additional information about subtest performance.
2. Enhance depth of interpretation and understanding of performance.
3. Facilitate understanding of scores from a process approach perspective.

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### WISC-V Integrated: The Best of Both Worlds



**Product ("What?")**

- Level of performance
- Quantitative
- Scores
- Norm-referenced

**Process ("Why?")**

- Nature of behaviors
- Qualitative/Quantitative
- Strategies
- Correlates with brain function

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**Assumptions of the Process-Oriented Approach** 

Any one factor – or a combination of factors – may contribute to a child’s performance on a task.

**Cognitive tests are multi-factorial**

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**Assumptions of the Process-Oriented Approach** 

Process-oriented approach attempts to identify cognitive sub-processes contributing to score.

E.g., for Vocabulary:

- Receptive language problem - Difficulty understanding directions, stimulus words
- Lack of word knowledge
- Difficulty accessing mental lexicon - Problems with retrieval from long-term storage
- Expressive language problem

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**Vocabulary** 

<b>Barbara</b> Scaled Score = 5 Lacks semantic knowledge: Does not know what words mean	<b>Joseph</b> Scaled Score = 5 Expressive language problem: Knows word meanings, but cannot produce the words to express his knowledge
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**Process-Oriented Approach to Interpretation**

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**Block Design**

<b>Rose</b> Scaled Score = 5 Poor visual-perceptual and spatial reasoning abilities.	<b>Mark</b> Scaled Score = 5 Poor visuomotor skills.
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Process-Oriented Approach to Interpretation

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**Digit Span**

<b>Sue</b> Scaled Score = 6 Below average storage capacity.	<b>Sam</b> Scaled Score = 6 Below average mental manipulation.
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Process-Oriented Approach to Interpretation

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**Coding**

<b>Aaron</b> Scaled Score = 5 Slow processing speed.	<b>Jason</b> Scaled Score = 5 Slow graphomotor speed.
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Process-Oriented Approach to Interpretation

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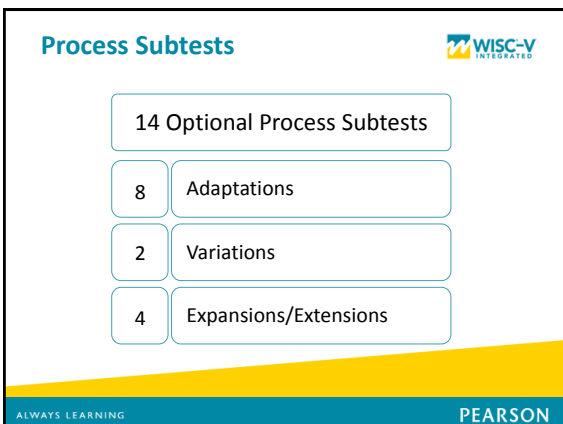
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## Adaptations

Same item content as corresponding primary or secondary WISC-V subtest, and modifications to mode of presentation, response format, or item administration.

- Similarities MC
- Vocabulary MC
- Picture Vocabulary MC
- Comprehension MC
- Information MC
- Figure Weights Process Approach
- Arithmetic Process Approach
- Written Arithmetic

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## Variations

Novel item content and modifications to mode of presentation, response format, or item administration.

- Block Design MC
- Cancellation Abstract

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## Expansions/Extensions

Expand scope of construct coverage and provide information related to child's performance on other subtests

- Coding Copy
- Coding Recall
- Sentence Recall
- Spatial Span

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**Process Subtest Selection** 

- Don't use all processing subtests/procedures with every child
- Select based upon:
  - Referral questions
  - Observations made during core assessment
  - Need to collect confirmatory data

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Description of Process Subtests

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Verbal Multiple Choice Process Subtests

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Verbal Multiple Choice  
Process Subtests



- Similarities Multiple Choice (Similarities MC)
- Vocabulary Multiple Choice (Vocabulary MC)
- Picture Vocabulary Multiple Choice (Picture Vocabulary MC)
- Information Multiple Choice (Information MC)
- Comprehension Multiple Choice (Comprehension MC)

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Verbal Multiple Choice  
Process Subtests



- Each subtest uses frequently given correct and incorrect responses from the related WISC-V version.
- All but Picture Vocabulary MC and Information MC scored on a 2, 1, 0 basis as on WISC-V subtests.
- Rationale: Integrated subtests remove the need for using expressive language or recalling information from long-term storage.

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Similarities Multiple Choice  
(SIMC)



- SIMC is a multiple-choice **adaptation** of the WISC-V Similarities subtest.
- Each item and its response options are presented visually and read aloud.
- The child selects the response option that best represents how the common objects or concepts are similar.

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**Vocabulary Multiple Choice (VCMC)** 

- VCMC is a multiple-choice **adaptation** of the WISC-V Vocabulary subtest.
- For each picture item, the child views a picture and selects the best response from options read aloud.
- For verbal items, each item and its response options are presented visually and read aloud.
- The child selects the response option that best represents the definition of the word.

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**Picture Vocabulary Multiple Choice (PVMC)** 

- PVMC is a pictorial multiple-choice **adaptation** of the WISC-V Vocabulary subtest.
- The child views four pictures and selects the picture that best depicts the definition of the word that is presented verbally.

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**Information Multiple Choice (INMC)** 

- INMC is a multiple-choice **adaptation** of the WISC-V Information subtest.
- Each item and its response options are presented visually and read aloud.
- The child selects the response option that best represents an understanding of the general knowledge topic.

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**Comprehension Multiple Choice  
(COMC)**



- COMC is a multiple-choice **adaptation** of the WISC-V Comprehension subtest.
- Each item and its response options are presented visually and read aloud.
- The child selects the response option that best represents an understanding of the general principle or social situation.

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**Visual Spatial Process Subtests**

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**Block Design Multiple Choice  
(BDMC)**



- BDMC is a multiple-choice **variation** of the WISC-V Block Design subtest.
- The child views a picture of a constructed block design and selects the pictured block set that produces a matching composition, within a specified time limit.
- Assesses visual integration and mental construction skills without the influence of motor planning and execution.

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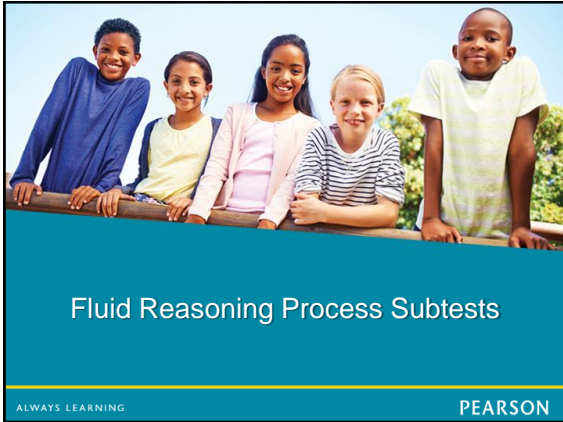
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**Figure Weights Process Approach (FWP)** 

- FWP is an **adaptation** of the WISC-V Figure Weights subtest in which the child is given additional time to respond.
- Within an extended time limit, the child is readministered Figure Weights items previously scored 0 points.

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**Arithmetic Process Approach (ARP)** 

- ARP is an **adaptation** of the WISC-V Arithmetic subtest. Specific Items 6–34 are presented in multiple modalities for the child to solve within a specified time limit.
- For Part A, Arithmetic items on which the child scored 0 points are presented visually and simultaneously read aloud.
- For Part B, the child is provided paper and pencil, and is readministered the items scored 0 points in Part A.

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## Written Arithmetic (WA)



- WA is an **adaptation** of the WISC-V Arithmetic subtest.
- The child is presented with the mathematical computations for Arithmetic items and uses a pencil to complete them.

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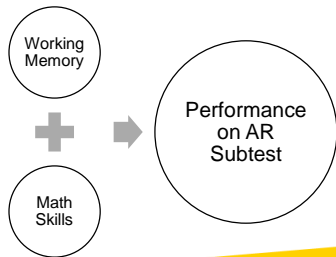
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## Arithmetic Process Approach and Written Arithmetic



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## Working Memory Process Subtests

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### Spatial Span (SSP)



- SSP is a **variation** of the WISC-V Digit Span subtest. DS uses numbers; SSP uses letters.
- For Spatial Span Forward, the child reproduces a sequence of tapped blocks.
- For Spatial Span Backward, the child reproduces in reverse order a sequence of tapped blocks.



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### Spatial Span (SSP)



- SSP provides an assessment of spatial working memory.
- SSP score can be contrasted with various verbal working memory measures.
- Letters/words/pseudowords are easier to remember and administer/score.

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### Sentence Recall (SR)



- SR items are composed of two tasks: a question task and a recall task.
- For the question task, the child responds either "Yes" or "No" to one or more simple questions.
- For the recall task, the child recalls the last word of each question, in the order presented.

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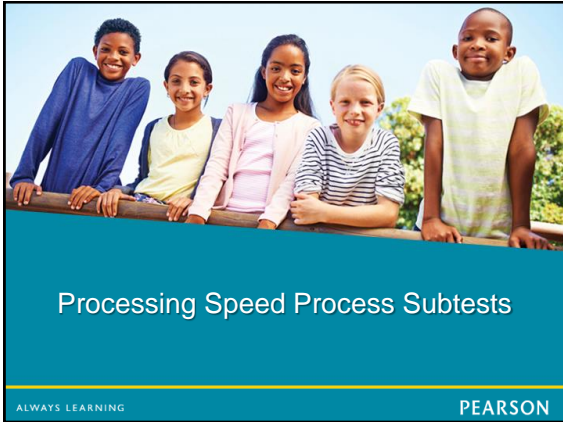
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### Coding Recall (CDR)



- CDR **expands** the scope of the WISC-V Coding subtest.
- Working within a specified time limit and without a key, the child attempts to remember the corresponding pairs from Coding in three formats: cued recall, free recall, and pairing.
- After completing Coding, examinee recalls
  - symbols associated with each number of shape: cued (Form A and Form B);
  - symbols via free recall;
  - numbers associated with each symbol: pairing (Form B only).

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### Coding Copy (CDC)



- CDC **expands** the scope of the WISC-V Coding subtest. Within a specified time limit, the child copies the symbols used in Coding.
- Allows examiner to assess impact of graphomotor speed on performance on Coding.
  - Low scores on Coding Copy: Possibly poor graphomotor speed interfering with Coding performance.
  - High scores on Coding Copy: Possibly poor incidental learning and visual scanning interfering with Coding performance.

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## Cancellation Abstract (CAA)



- CAA is a **variation** of the WISC-V Cancellation subtest.
- Working within a specified time limit, the child scans two arrangements of shapes (one random, one structured) and marks target shapes.

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## Scores

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## Subtest Scores



- Scores on the 14 WISC-V Integrated process subtests are reported as scaled scores (mean = 10; standard deviation = 3).
- The scaled scores for the process subtests are for comparison purposes only.

Scaled scores for process subtests are not used in the calculation of WISC-V Primary Index Scores and Full Scale IQ.

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### Composite Scores

**MCVC**  
(Multiple Choice Verbal Comprehension Index)

- SIMC + VCMC
- Provides an estimate of verbal comprehension
- Helpful for examinees with expressive language difficulties

**VWMI**  
(Visual Working Memory Index)

- Picture Span + Spatial Span
- Compare with WISC-V AWMI
- Working memory domain specific at this age-range

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### Other Scores

- Parts, where it makes sense
  - e.g., Spatial Span Forward, Spatial Span Backward, and comparison
  - e.g., Arithmetic Process Approach Part A and Part B, and comparison
- Longest span scores

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### Process Observations

- The same process observations as are available on WISC-V in Appendix D of the Technical and Interpretive Manual.
- Base rates for behaviors.

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### Comparison Scores

Discrepancy comparisons with WISC-V

- Compare process scores and subtests
- Compare composite scores where it makes sense (e.g., VCI vs. MCVCI)

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### Clinical Utility of WISC-V Integrated

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### Male, Grade 5, Age 10:5

WISC-V Index/Subtest	Composite Score/ Scaled Score	WISC-V Index/Subtest	Composite Score/ Scaled Score
<i>Verbal Comprehension</i>	76	<i>Working Memory</i>	88
Similarities	6	Digit Span	6
Vocabulary	5	Picture Span	10
(Information)	(7)	(Letter-Number Sequencing)	(5)
(Comprehension)	(6)	<i>Processing Speed</i>	86
<i>Visual Spatial</i>	86	Coding	5
Block Design	5	Symbol Search	10
Visual Puzzles	10	(Cancellation)	(9)
<i>Fluid Reasoning</i>	103		
Matrix Reasoning	11		
Figure Weights	10		
(Picture Concepts)	(9)		
(Arithmetic)	(13)		
Full Scale IQ 77			

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### Addition of WISC-V Integrated

WISC-V Subtest	WISC-V Integrated Subtest	Scaled Score	
Similarities	Similarities Multiple Choice	6	12
Comprehension	Comprehension Multiple Choice	6	15
	Vocabulary Multiple Choice		10
Vocabulary	Picture Vocabulary Multiple Choice	5	10
Information	Information Multiple Choice	7	7
Block Design	Block Design Multiple Choice	5	10
Digit Span	Spatial Span	6	10
Coding	Coding Copy	5	5
	Coding Recall		10

(WISC-V Integrated, 2015)

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### WISC-V Integrated Kit

- Administration and Scoring Manual
- Technical and Interpretive Manual
- Record Form
- Stimulus Books 1 and 2
- Response Booklets 1 and 2
- Coding Recall Scoring Key
- Cancellation Abstract Scoring Template
- Spatial Span Board
- #2 Pencil without eraser

NOW AVAILABLE!

Kit Code	Description	Price
0158008413	WISC-V Integrated Kit	\$305.00

Q-global scoring and reporting for the WISC-V Integrated - Coming Soon!

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