Achieve Equitable Identification using Universal Assessment and Local Norms and the Naglieri General Ability Tests: Verbal, Nonverbal and Quantitative

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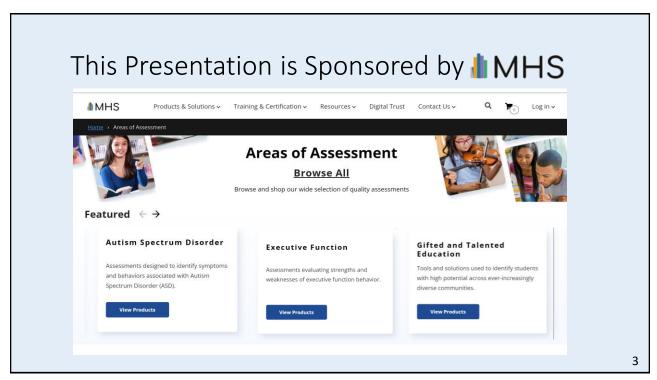




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The William State of the State



- 1. Why are we here?
- 2. What did we discover?
- 3. What solution did we create?

Λ



Gifted ❖ Very Smart

Talented ❖ Very Accomplished

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One Definition of Gifted & Talented

- "Giftedness designates the possession and use of untrained and spontaneously expressed natural abilities (called aptitudes or gifts), in at least one ability domain (e.g. intellectual, creative, socio-affective, perceptual/motor, and 'others')..."
- "By contrast, 'talent' designates the superior mastery of systematically developed abilities (or skills) and knowledge in at least one field of human activity."

Francois Gagné

Bright Child Gifted Child

Knows the answer Asks questions

Is interested Is highly curious

Works hard Plays around, yet tests well

Answers the questions Discusses in detail, elaborates

Top of the group Beyond the group

Learns with ease Already knows

6-8 Repetitions for mastery 1-2 Repetitions for mastery

Understands ideas Constructs abstractions

Grasps the meaning Draws inferences

Completes the assignments Initiates projects

Is receptive Is intense

Copies accurately Creates a new design

Enjoys school Enjoys learning 7

Enjoys straightforward, sequential learning

Thrives on complexity

Profiles of Gifted Learners

- Creatively gifted people
- Gifted Perfectionists
- · Highly and profoundly gifted
- Culturally & linguistically diverse gifted students
- Twice-exceptional gifted students
- · Non-productive gifted students
- High ability / high achieving students



General Ability

General ability is what allows us to solve many different kinds of problems which may involve

 reasoning, memory, sequencing, verbal and math skills, patterning, connecting ideas across content areas, insights, making connections, drawing inferences, analyzing simple and complex ideas.

The key is to measure general ability in a way that is not confounded by knowledge

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- 1. Why are we here?
- 2. What did we discover?
- 3. What solution did we create?

Did you know...

- The origin of the most widely used intelligence tests?
- •That the most widely used group and individual intelligence tests measure vocabulary knowledge and include Arithmetic word problems like those found on achievement tests?
- Does that feel right?

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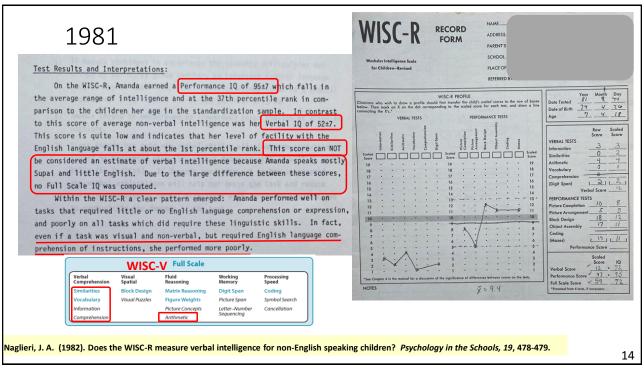
Traditional IQ and Achievement Tests

- Working as a school psychologist in 1975 I noticed that items on the WISC we were VERY similar to parts of the achievement tests
 - The Peabody Individual Achievement Test (1970) had a General Information and Arithmetic subtests JUST LIKE THE WISC!
 - THAT DID NOT MAKE SENSE
 - In 1977 → UGA for Ph.D. With Alan Kaufman who said VIQ=achievement



1975 Charles Champagne Elementary, Bethpage, NY





Naglieri's Nonverbal Tests: 1985 to Present

Research on Six Versions of the Naglieri Nonverbal Tests







Each of these versions of the NNAT showed similar scores by RACE, ETHNICITY, & SEX and had strong correlation with achievement

Naglieri Nonverbal Expanded Forms Ability Test 1997

NNAT -Individual,

INNAT

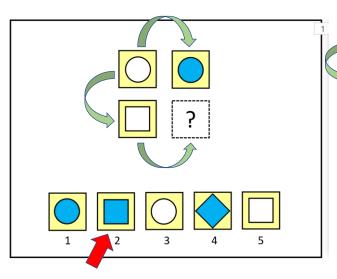
NNAT -2 2008 NNAT3 2016

This research convinced me that measuring intelligence using test questions that measured how well a student can think was a valid and equitable way to measure general intelligence 'g'.

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Tests that Measure Thinking or Knowing?



Girl is woman as boy is to man?

3 is to 6 as 5 is to 10 ?

C⁷ is to F as E^7 is to A?

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How to Evaluate Thinking vs Knowing

What does the examinee have to know to complete a task?

• This is dependent on instruction



How does the student have to think to complete a task?

 This is dependent seeing how ideas or things are related to one another and some tasks just demand remembering



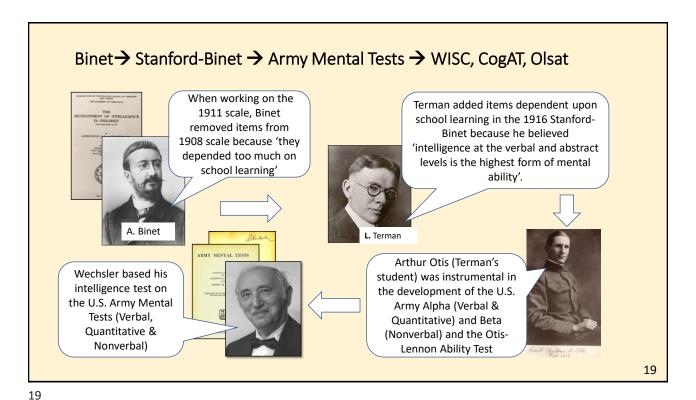
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Why do we measure intelligence the way we do?

The History of IQ tests



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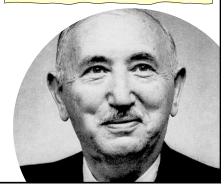


Alpha & Beta → Wechsler Army Alpha Stechel · Synonym- Antonym Verbal & • Disarranged Sentences ARMY MENTAL TESTS Quantitative **Number Series** IQ **Arithmetic Problems** (Knowledge) Analogies Information WISC, WJ · Army Beta CogAT & Maze Otis-Lennon **Cube Imitation** Nonverbal **Cube Construction** IQ Digit Symbol (Thinking) **Pictorial Completion** Geometrical Construction

Wechsler's View of General ability

Wechsler "believed that his Verbal and Performance Scales represented different ways to access g (general ability)", but he never believed [in verbal and] nonverbal intelligence as being separate from g. Rather he saw the Performance Scale as the most sensible way to measure the general intelligence of people with ... limited proficiency in English. (Kaufman, 2008)

"The aggregate or global capacity of the individual to act purposefully, to think rationally, and to deal effectively with his environment (1939)"



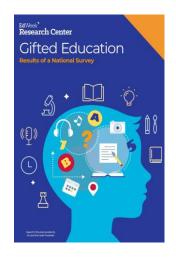
wining streams that if sain Administration and Scoring Manual Evol Walnut July 1 (1997) (1997

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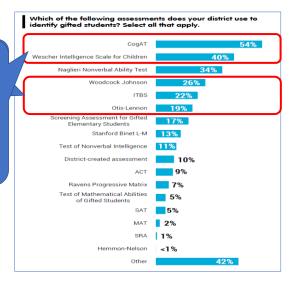
Knowledge is Included in "Ability" Tests

Stanford- Binet-5	WISC-V	WJ-IV	KABC-II	OLSAT	CogAT
 Verbal Knowledge Quantitative Reasoning Vocabulary Verbal Analogies 	Verbal Comprehension Vocabulary, Similarities, Information & Comprehension Fluid Reasoning Figure Weights, Arithmetic	Comprehension Knowledge: Vocabulary & General Information Fluid Reasoning: Number Series & Concept Formation Auditory Processing: Phonological Processing	Knowledge / GC Riddles, Expressive Vocabulary, Verbal Knowledge	Verbal Following directions Verbal Reasoning Quantitative Verbal Arithmetic Reasoning	Verbal Scale Analogies Sentence Completion Verbal Classification Quantitative 45 pages of oral instructions

National Survey of Gifted Education



These tests have verbal and quantitative questions and lengthy verbal directions



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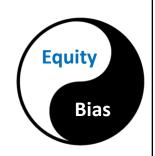
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Test Bias vs Test Equity

According to the *Standards for Educational and Psychological Testing* (AERA, APA, NCME, 2014) Psychometric TEST BIAS and EQUITY are two different ways of measuring test fairness.



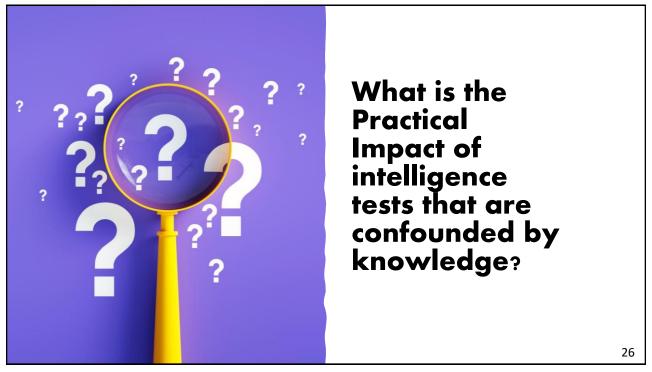
 ... if a person has had limited opportunities to learn the content in a test of intelligence, that test may be considered unfair (because it penalizes students for not knowing the answers) even if there is no evidence of psychometric test bias.

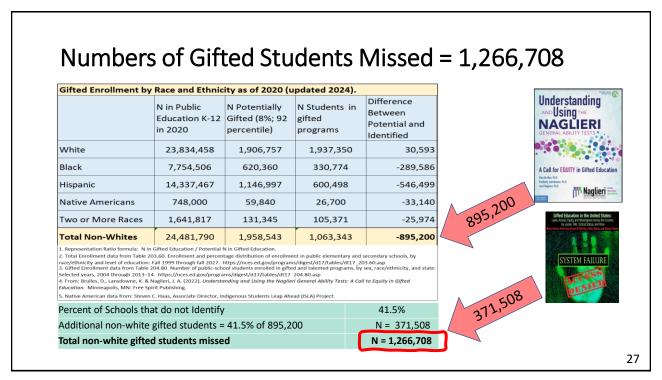


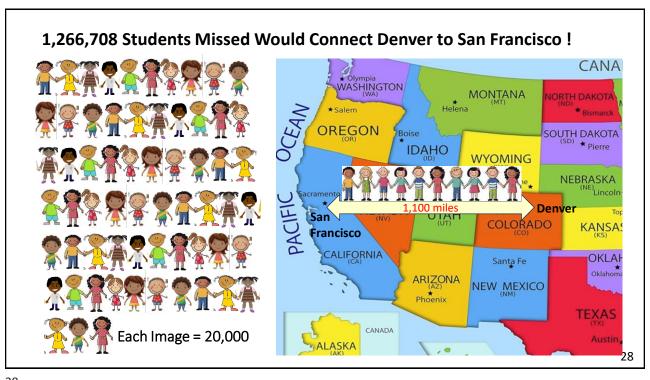
 Evidence of EQUITY is examined by test content and mean score differences

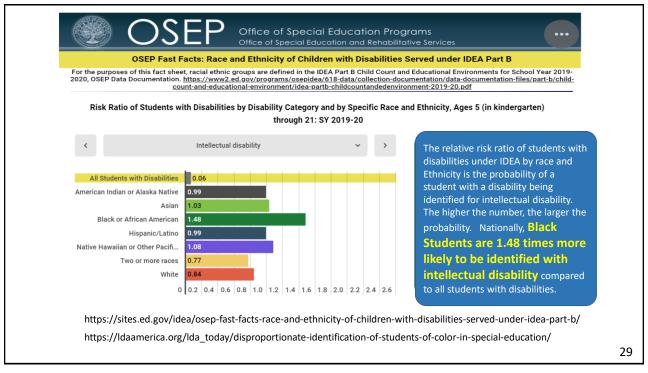
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		By Race	By Ethnicity
,	TRADITIONAL Tests that require knowledge	9.4	6.4
Race and Ethnic	Otis-Lennon School Ability Test (district wide)	13.6	-
	Stanford-Binet IV (normative sample)	12.6	-
fferences for	CogAT7 Nonverbal	11.8	7.6
	WISC-V (normative sample)	11.6	-
tional and	WJ- III (normative sample)	10.9	10.7
nd-Generation	K-ABC II Fluid-Crystallized Index	9.4	9.8
ia-Generation	WISC-V (statistical controls normative sample)	8.7	5.4
lligence Tests	K-ABC II Mental Processing Index	8.1	8.2
ingenice rests	CogAT-Total (V, Q & NV)	7.0	4.5
g o	CogAT7 - Verbal	6.6	5.3
	CogAT- Nonverbal	6.4	2.9
	CogAT7-Quantitative	5.6	3.6
	SECOND GENERATION Tests that require minimal knowledge	4.5	2.5
	CAS-2 (normative sample)	6.3	4.5
Gifted Education	Naglieri General Ability Test-Verbal (Ns= 392 & 709)	6.2	1.0
I No. Pari ***	Naglieri General Ability Test-Quantitative (Ns= 392 & 709)	5.5	4.4
Naglieri semend James Free semend James Free	CAS (statistical controls normative sample)	4.8	4.8
ized here were reported for the Otis-Lennon School Ability Test 5); Stanford-Binet IV by Wasserman (2000); Woodcock-Johnson III	Naglieri General Ability Test-Nonverbal (Ns= 392 & 709)	4.4	0.3
s and Oakland (2006) and ethnic differences by Sotelo-Dynega, (2013); CogAT7 by Carman, Walther and Bartsch (2018) and	CAS-2 (statistical controls normative sample)	4.3	1.8
(2015), CogAT of Carman, Walther and Battsch (2015) and Kaufman, Raiford, and Coalson (2016); Kaufman Assessment chtenberger, Volker, Kaufman & Kaufman, (2006) and Scheiber,	Naglieri General Ability Test-Quantitative (N = 6,098)	4.3	2.9
the Three KABC-II Global Scores is the Least Biased?. Journal of 1, 21–35 (2015); CAS by Naglieri, Rojahn, Matto, and Aquilino	NNAT (matched samples)	4.2	2.8
CAS2:Brief by Naglieri, Das, and Goldstein (2014a and 2014b), Naglieri Test by Naglieri and Ronning (2000), Naglieri General Ability Tests by	Naglieri General Ability Test-Verbal (N= 5,739)	4.2	1.3
es, and Lansdowne (2022 & 2024) and Selvamenan et al., 2024 (in press).	Naglieri General Ability Test-Nonverbal (N=6,887)	3.5	0.9
	CAS-2 Brief (normative samples)	2.0	2.8









Academic Learning Loss & COVID

- COVID-19 has increased the impact of disparities in access and opportunity for students of color and they are even further behind than they were before.
- Their scores on traditional intelligence tests which demand knowledge are even more inaccurate.
- Solutions:
 - For traditional tests, use post-COVID norms only.
 - Use intelligence tests that are not dependent upon knowledge



Education in a Pandemic: The Disparate Impacts of COVID-19 on America's Students. US Dept. of Ed- Office of Civil Rights. June, 21, 2021. https://www2.ed.gov/about/offices/list/ocr/docs/20210608-impacts-of-covid19.p

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The test you choose determines the results you receive, the decisions you make, and the future of your students

That is the *Practical Impact* of test selection

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Time for your Thoughts and Questions

- 1. Why are we here?
- 2. What did we discover?
- 3. What solution did we create?

Reducing Underrepresentation of Minority Children in Gifted Education –

SENG 2004 Washington DC

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The Naglieri General Ability Tests: Verbal, Nonverbal and Quantitative

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2016 – 2022 Developmental Process

Naglieri General Ability Tests | Maglieri |

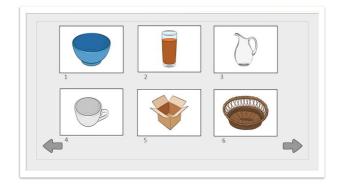


- We explicitly made tests for equitable identification of students from diverse cultural, linguistic, or socioeconomic backgrounds
- We used the traditional Verbal, Nonverbal and Quantitative formats to measure general ability using:
 - · Test questions that do not require academic knowledge,
 - Verbal and Quantitative test questions that can be solved using any language,
 - Animated instructions remove the need for comprehension of directions,
 - · A multiple-choice response removes the need for verbal expression.
 - Online (and paper) administration for group or individual assessment
 - · Universal assessment using local and national norms

The Naglieri-V measures general ability using pictures of objects representing verbal concepts. The items are comprised of universally recognized pictures that do not rely on knowledge acquired in academic settings.

The student's task is to identify which of the six pictures does *not* represent the verbal concept shared by the other five.

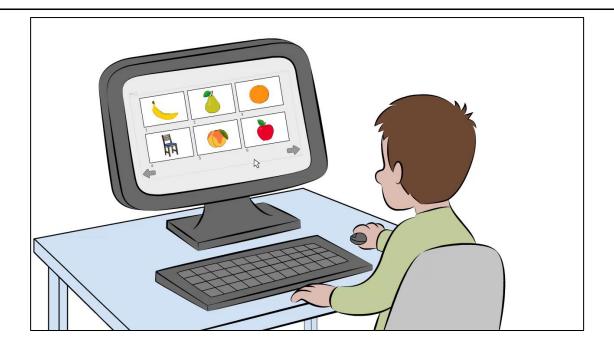
The test items require close examination of the relationships among the pictures.



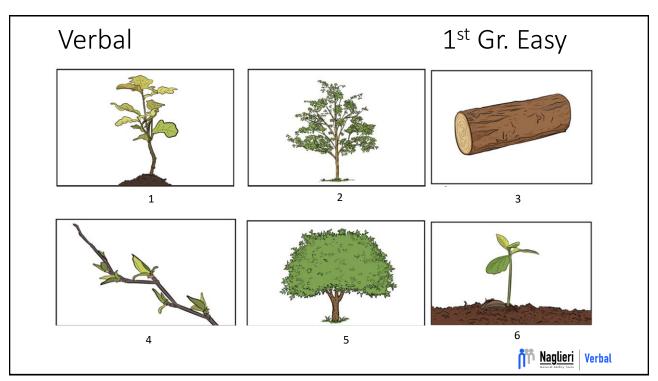


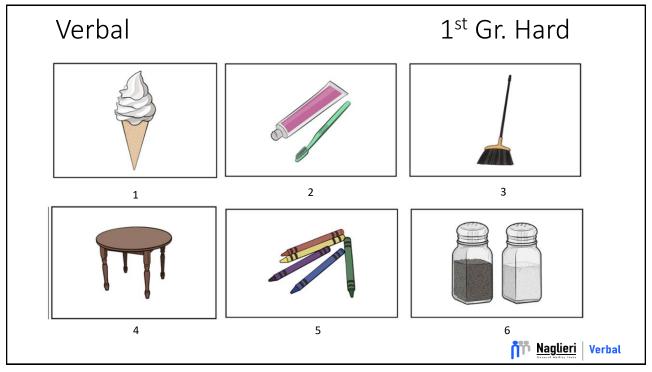
Naglieri General Ability Test — Verbal (Naglieri & Brulles)

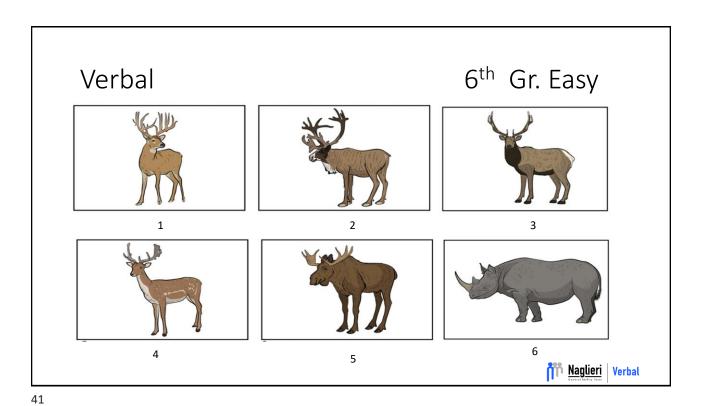
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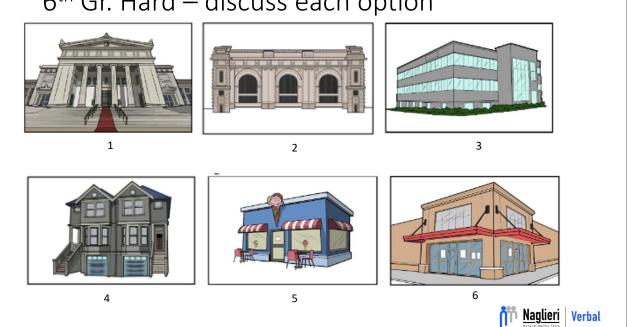
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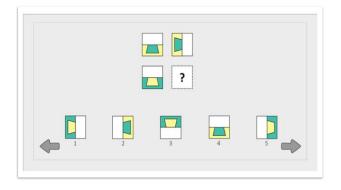
6th Gr. Hard – discuss each option



The Naglieri-NV measures general ability using questions that require a student to recognize the relationships among the shapes.

The structure of the items varies, but all items require that the student decipher the logic behind the relationships among the shapes, sequences, spatial orientations, patterns, and other distinguishing characteristics.

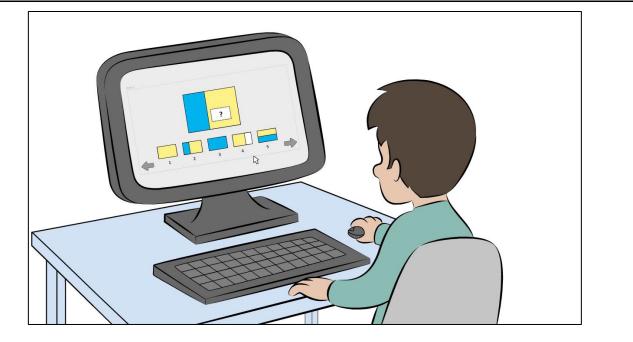
This nonverbal test is conceptually similar to the NNAT3 but it contains many NEW kinds of items not included before.

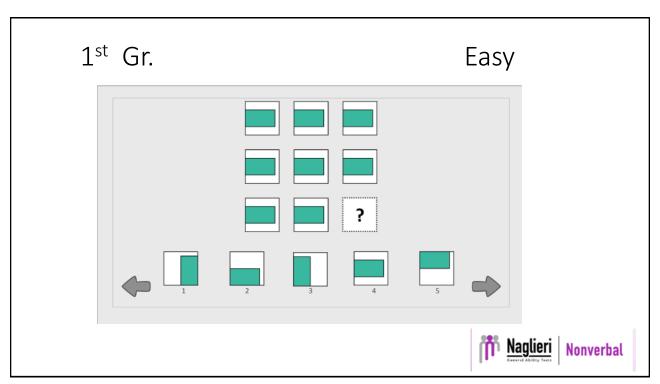


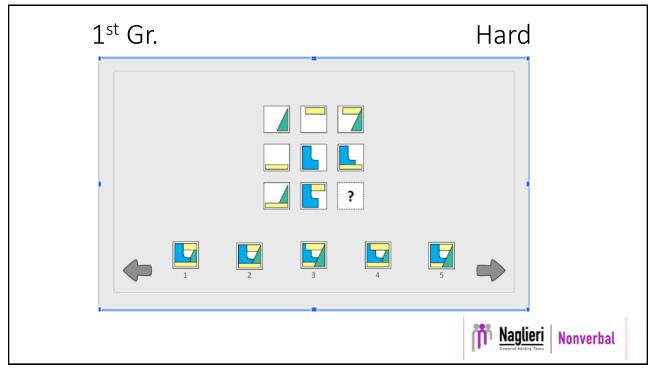


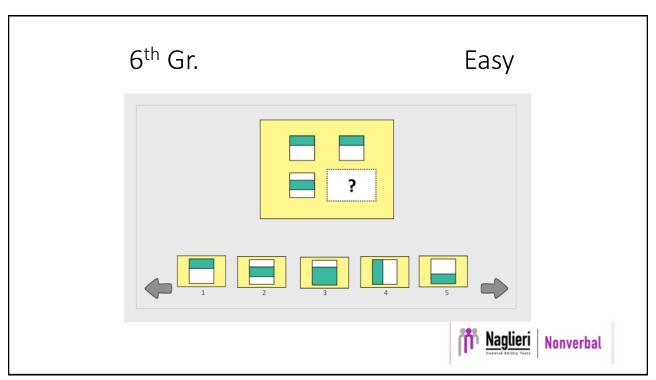
Naglieri General Ability Test —Nonverbal (Naglieri)

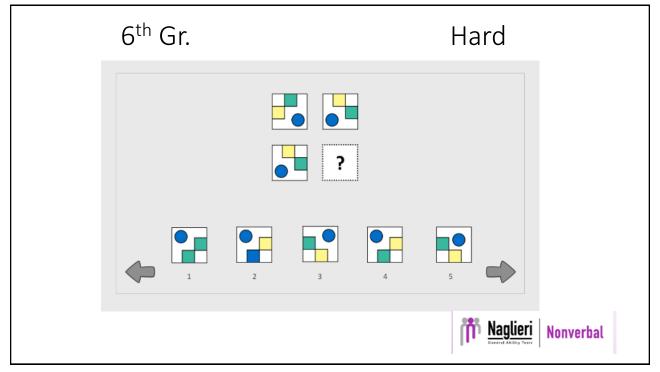
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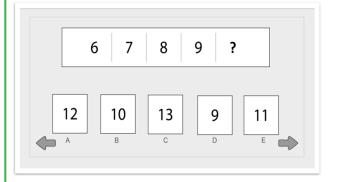


The Naglieri-Q measures general ability using numbers and/or symbols. Students must decipher the logic behind the relationships among the numbers and symbols to identify the answer.

Items require the student to determine equivalency of simple quantities, analyze a matrix of numbers and solve mathematical sequences.

Items require minimal academic knowledge, and the calculation requirements are simple.

The items have no verbal requirements (i.e., no math word problems) so that they can be solved regardless of the language used by the student.



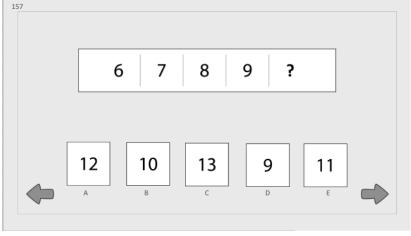


Naglieri General Ability Test — Quantitative (Naglieri & Lansdowne)

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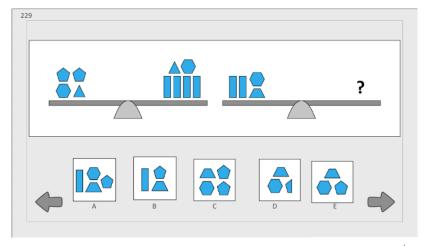
Naglieri General Ability Tests-Grade 1-Easy



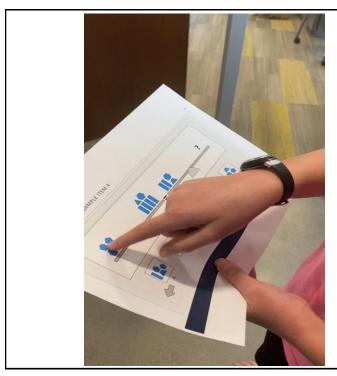


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Naglieri General Ability Tests-Grade 1-Hard





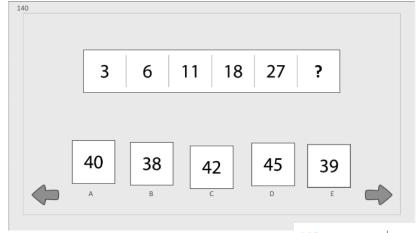




Naglieri General Ability Test — Quantitative (Naglieri & Lansdowne)

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Naglieri General Ability Tests-Grade 6-Easy



Naglieri Quantitative

Now that you have seen some of the verbal items, what do you think?



- Do you have a student who can do well on these, but not doing well at school?
- Can you accept that a student who can get a high score on these kinds of questions that they SHOULD BE in a gifted program?
- You can't guess and get a very high score on these tests!

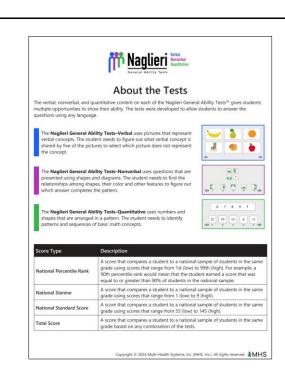
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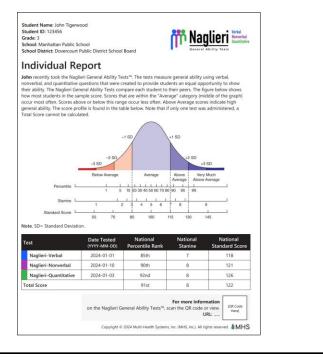
Naglieri General Ability Tests: Verbal, Nonverbal and Quantitative Technical and Administration Manuals

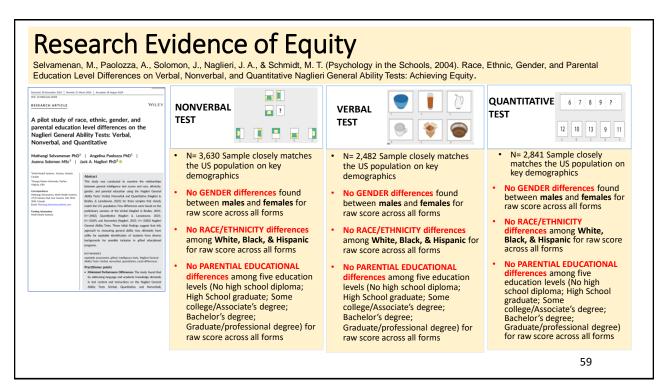




Communication Times	The course of a long is a close of the character of the c
CompletionTime	The amount of time in minutes from when the student started the items to when they timed out or submitted the test.* If a student responded to all items within a test in two minutes or less, a flag will appear to indicate an unusually fast response style. "-"
CompletionTimeFlag	indicates that there is no flag.*
OmittedItems	The number of items the student viewed but did not answer before they timed out or submitted the test.
Officediteris	If a student omitted a certain number of items on the test, a flag will appear. For students in Kindergarten and Grade 1, the warning appears
	if they omit 10 or more items on the test and for students in Grades 2 to 6, the warning appears if they omit 5 or more items on the test. "-
Omitted Items Flag	indicates that there is no flag.
Identical Responses	The number of identical responses (e.g., selecting option 2) a student provided in a row.
Identical Responses Flag	If a student provided identical responses to 10 or more consecutive items on the test, a flag will appear. "-" indicates that there is no flag.
Inconsistent Responses	The ratio between the number of correct responses for harder items and the number of correct responses for easier items.
	If a student has a smaller ratio (i.e., values below 0.8) a flag will appear which indicates that the student correctly answered more of the
Inconsistent Responses Flag	difficult items on the test compared to the easier items. "-" indicates that there is no flag.
Score Legend	
	Indicates if the student completed the test. CBS (Cannot Be Scored) indicates a test was not completed or attempted, and therefore no
Attempted	score can be calculated.
DateTested TimedOut	The date the student completed the test.
	Indicates if the student timed out of the test before completing all the items.
ItemsAttempted	The number of items the student attempted before they timed out or submitted the test.
RawScore	The sum of the items answered correctly on a specific test, up to the point where the discontinue rule is met.
PercentileRank	The percentage of students in the norm sample who obtained the same or lower score than the score obtained by the student.
Stanine	The value a student ranks out of nine broad categories.
StandardScore	The student's ability, relative to the average of the norm sample.
ConfidenceInterval	This shows a range of values based on the standard score that you can be 95% confident contains the student's true score.
	When a student has completed all three tests, a Total Score based on all three tests is computed. When a student has completed only two
Total	tests, a Total Score based on the two-test combination is computed.
Additional Information Legend	
-1	Indicates a student never saw the item
Duplicate	Indicates that 2 or more of the same test records exist for this student ID. The most recent record has been scored.
*Note: If the timer is turned off on th	e student's test, the completion time will only reflect the time spent in the test before the timer was turned off. This may result in a completion







Comparison of English and Non-English Groups

- Total sample size = 322
- A matched sample was randomly drawn, pairing an English-speaking student with a Non-English-speaking student on the basis of gender, race, ethnicity, region, and age

Demographic		English		Non-English		Total	
	Kindergarten	1	0.6	3	1.9	4	1.2
	Grade 1	25	15.5	7	4.3	32	9.9
	Grade 2	36	22.4	68	42.2	104	32.3
Grade	Grade 3-4	55	34.2	41	25.5	96	29.8
	Grade 5-6	23	14.3	21	13.0	44	13.7
	Grade 7-9	21	13.0	21	13.0	42	13.0
	Female	86	53.4	86	53.4	172	53.4
Gender	Male	75	46.6	75	46.6	150	46.6
	Other	0	0.0	0	0.0	0	0.0
	Asian	9	5.6	9	5.6	18	5.6
	Black	10	6.2	10	6.2	20	6.2
Racial/Ethnic Group	Hispanic	85	52.8	85	52.8	170	52.8
	White	55	34.2	55	34.2	110	34.2
	Other	2	1.2	2	1.2	4	1.2
U.S. Region	Midwest	0	0.0	0	0.0	0	0.0
	South	149	92.5	149	92.5	298	92.5
	West	12	7.5	12	7.5	24	7.5
Age in years M (SD)		9.1(2.2)		9.1 (2.2)		9.1 (2.2)	
Total		161	100.0	161	100.0	322	100.0

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Group Differences by Primary Language Spoken

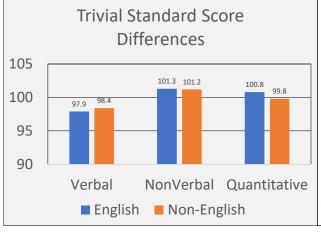


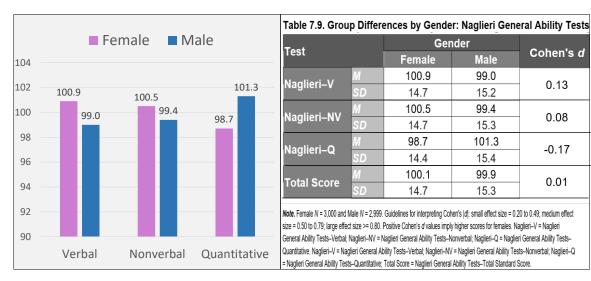
Table 6.31. Group Differences by Primary Language Spoken: Naglieri General Ability Tests							
Test	Language	Descri	ptives	Differences			
	Spoken			Cohen's d	95% CI	t	
Naglieri-V	English	97.9	14.5	-0.04	-0.07, 0.13	-0.32	
	Non-English	98.4	14.8	-0.04			
Madiasi MV	English	101.3	14.1	0.00	-0.17, 0.02	0.04	
Naglieri-NV	Non-English	101.2	13.5	0.00			
Naglieri-Q	English	100.8	14.1	0.07	0.07.012	0.65	
	Non-English	99.8	12.9	0.07	-0.07, 0.13		

Note. N = 161 for each English and Non-English group. t statistic produced from a Welch Two Sample test. Cohen's |d|: small effect size = 0.20 to 0.49; $medium\ effect\ size = 0.50\ to\ 0.79; large\ effect\ size \geq 0.80.\ Positive\ d\ values\ indicate\ higher\ scores\ for\ English\ Primary\ students.\ Naglieri-V = Naglieri-V$ General Ability Tests-Verbal; Naglieri-NV = Naglieri General Ability Tests-Nonverbal; Naglieri-Q = Naglieri General Ability Tests-Quantitative.

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Female (N = 3,000) Male (N = 2,999) Differences



Test		Ger				
		Female Male		Cohen's d		
Naglieri–V	М	100.9	99.0	0.42		
Nagiieri–v	SD	14.7	15.2	0.13		
Nauliaui MV	М	100.5	99.4	0.08		
Naglieri-NV	SD	14.7	15.3	0.06		
Naglieri–Q	M	98.7	101.3	-0.17		
Nagileti–Q	SD	14.4	15.4	-0.17		
Total Cases	М	100.1	99.9	0.01		
Total Score	SD	14.7	15.3	0.01		

Note, Female N = 3,000 and Male N = 2,999. Guidelines for interpreting Cohen's |d|: small effect size = 0.20 to 0.49; medium effect size = 0.50 to 0.79; large effect size >= 0.80. Positive Cohen's d values imply higher scores for females. Naglieri-V = Naglieri General Ability Tests-Verbal; Naglieri-NV = Naglieri General Ability Tests-Nonverbal; Naglieri-Q = Naglieri General Ability Tests-Quantitative. Naglieri-V = Naglieri General Ability Tests-Verbal; Naglieri-NV = Naglieri General Ability Tests-Nonverbal; Naglieri-Q = Naglieri General Ability Tests-Quantitative; Total Score = Naglieri General Ability Tests-Total Standard Score.

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Summary of Reliability, Validity and Fairness

- The Naglieri–V items were subjected to a cultural review
- Reliability coefficients for the Verbal, Nonverbal and Quantitative tests were high and exceed guidelines for test reliability
- Confirmatory factor analysis of the three tests, independently and in combination supported a broad factor of general ability
- The Naglieri–NV correlated significantly with the NNAT3
- Gifted students scored considerably higher than students from the general population
- All test ITEMS were inspected for fairness by gender, race, ethnicity, parental education level (PEL), and primary language spoken using differential item functioning (DIF) and analyses of covariance; negligible to small differences were found
- Overall, initial findings suggest that the Naglieri General Ability Tests meet guidelines for reliability, validity, and fairness

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POST COVID National Norms

Grade-based National Norms 1,000 students pre grade (K to grade 5).

Table 1. National Norm Sample Characteristics.

Demographic		N	%	U.S. Census (%)	Difference (%)
	Asian	235	3.9	4.7	-0.8
	Black	919	15.3	12.9	2.4
Race/Ethnicity	Hispanic	1,261	21.0	23.3	-2.3
	White	2,914	48.6	46.1	2.5
	Other	671	11.2	12.9	-1.7
	Northeast	804	13.4	15.9	-2.5
U.S. Region	Midwest	1,270	21.2	20.2	1.0
0.5. Region	South	2,328	38.8	38.1	0.7
	West	1,598	26.6	25.7	0.9
Total National Norm Sample		6,000	100.0		

Note. U.S. population derived from the 2019 American Community Survey.⁴

Interpretive Considerations for 3 Test Scores

- The suite of Naglieri General Ability tests includes three separate tests designed to measure "general ability, or g"
- The three tests use questions that have different content- Verbal, Nonverbal and Quantitative and different authors.
- This provides MULTIPLE measures of general ability, 3 Total Scores and a Composite score (V, NV and Q).
- We examined how many students in the normative sample would be identified if various combinations of the three tests were given.
 - For example: "How many students had a standard score of 120 (91st percentile) on one, two or all three of these tests."

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Why Use Norms in Gifted Identification?



National and local norms are used to compare students to peers of same age or grade level.

Norms are essential for ensuring fair and accurate assessment of a student's ability.

Expands schools' ability to identify potential.

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National Norms

• Established using a large sample of students who match the country's demographics, inc. age, gender, race, ethnicity, region, and SES status.

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Local Norms

- Calibrate a student's performance in relation to peers in the same building or district.
- Ensures scores are based on a comparison group that aligns
 w/the local community and its unique demographics.
- Effective for identifying students from previously underrepresented populations.

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National norms may be easier to implement and can be effective when used with districts or schools that represent national demographics.

Use national norms when/if...

- The district represents the national demographic.
- You successfully identify the top percent of students in the school who need specialized services.
- You are testing students in grades that are outside though that have universal testing. (Local norms can only be used when universally screening all students within a grade).
- A student is new to the school/district and was unable to participate with their grade-peers as part of a local norm sample.

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Use Local Norms when/if...

- The school setting does not represent the U.S. population
- Universal testing of all students in a specific grade level is conducted
- Norming by school building is desired (i.e., all students in a grade level)
- Norming by a specific group is desired (i.e., by demographics)

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Case Study: Central School District

- A large, diverse district spanning several miles
- Varies greatly in household income, race, ethnicity
- >97 percentile in both achievement and ability needed for identification
- Per district policy, gifted teachers are staffed in correlation with the number of students identified

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Serving All Gifted Learners

- Following identification, how can we create more equitable and inclusive gifted programs and services?
- Schools must expand their views, procedures and practices on programs for gifted learners.

Multiple
Measures &
Multiple
Pathways!

Different needs and circumstances require different approaches to testing and identification

 Ex. - Universal testing, using national norms (90-96%tile) and "flexing in" at Title I schools

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Four Common Program Models Examined through an equity lens

- Cluster Grouping
- Honors Classes
- Enrichment Classes
- Self-contained Programs



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Summary: Equitable Assessment of Intelligence

- Equitable evaluation of intelligence demands test questions that can be solved regardless of the amount of academic knowledge and facility with language a student has
- We have shown that
 - General ability (g) can be measured equitably across Verbal, Quantitative and Nonverbal content if the tests do not require academic knowledge
- Verbal, Quantitative and Nonverbal are a description of the content of the tests' questions NOT different types of intelligence
- Equitable tests measure THINKING in a manner that is minimally influenced by KNOWING

Time for final Thoughts, Questions and Answers

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Change
Demands
Courage to
Think
Differently

Socially just identification of gifted students requires selfreflection and self-correction in response to current research

Let's Connect





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Maybe It's Time to Let the Old Ways Die





NYASP 2022 Legends in School Psychology Award Interview

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What reactions do you have about this new way to identify gifted students?

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