

Four New Scales for Rating the Behavioral Characteristics of Superior Students

Joseph S. Renzulli
Sally M. Reis
M. Katherine Gavin
Del Siegle
Rachel Sytsma



University of
Connecticut

Neag Center for Gifted Education and Talent Development
2131 Hillside Road Unit 3007
Storrs, CT 06269-3007
www.gifted.uconn.edu

Scales for Rating the Behavioral Characteristics of Superior Students

First three scales (learning, motivation, and creativity) were published in a journal article in the mid 1970, Leadership was added by Robert Hartman.

Ten scales were published with a technical manual in 1976. The authors were Joseph S. Renzulli, Linda H. Smith, Alan J. White, Carolyn M. Callahan, and Robert K. Hartman

Scales were based on research literature. At the time factor analysis was limited and not conducted on the scales. Interjudge reliability and group comparisons were conducted.

A teacher training activity was published in 1980s in GCT and in 1985 SEM book

Scales for Rating the Behavioral Characteristics of Superior Students

In 1990s Karen Westberg reworked the original four scales to be gender neutral and contain single concepts. Some items were added and deleted and the scale was expanded to 6-points.

Factor analysis, alpha reliability, and criterion related validity with fall teacher nominations compared with spring success in g/t programs were completed.

A new manual with a new teacher training activity was published in 2002.

Other articles say the scales are the most widely used teacher checklist with non-conformity sometimes appearing as a fifth factor.

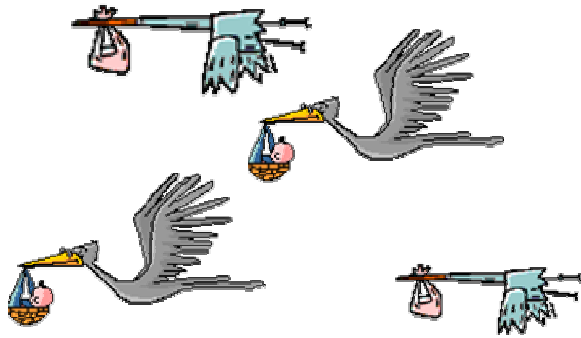
Scales for Rating the Behavioral Characteristics of Superior Students

Joseph S. Renzulli,
Linda H. Smith, Alan J. White,
Carolyn M. Callahan,
Robert K. Hartman, &
Karen L. Westberg



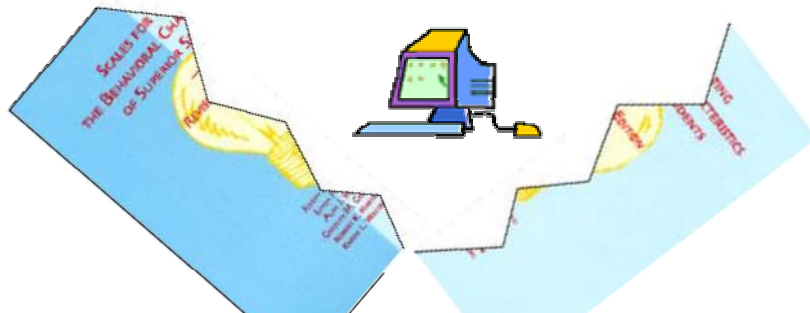
1. Learning Characteristics
2. Creativity Characteristics
3. Motivation Characteristics
4. Leadership Characteristics
5. Artistic Characteristics
6. Musical Characteristics
7. Dramatics Characteristics
8. Communication Characteristics (Precision)
9. Communication Characteristics (Expressive)
10. Planning Characteristics

There are FOUR new additions to the SRBCSS family



Reading
Science
Mathematics
Technology

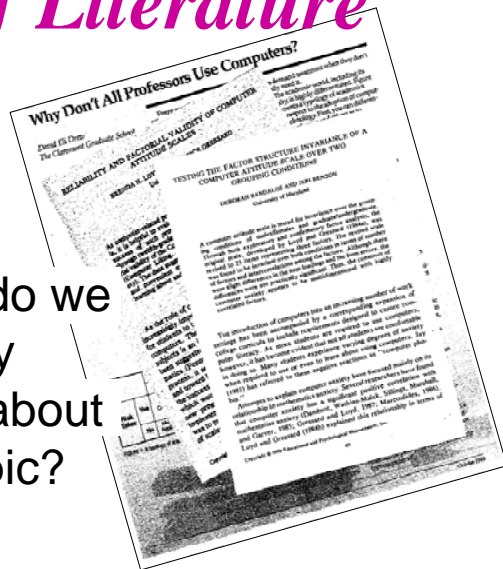
SRBCSS is going
ONLINE



Review of Literature

1st STEP

What do we already know about the topic?



Two Stages of Content (Face) Validity

1^G

Panel of Experts in Gifted and Talented Education

2^{STAGE}

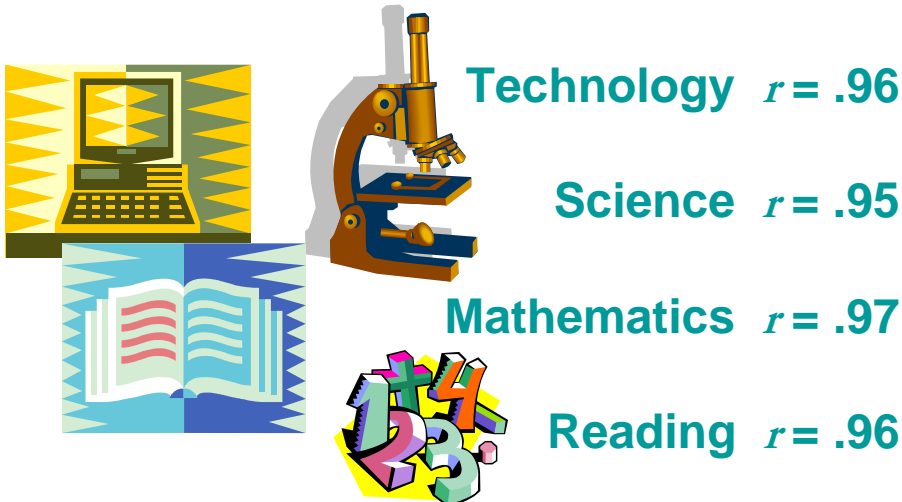
Panel of Experts in the Specific Content Areas

Nationwide Construct Validity

*Confirmatory Factor Analysis – Four Factor Structure, $\chi^2(371)=1541.22$,
RMSEA=.07, TLI=.95, CFI=.95*

- 726 Students
- Average of 5 Students Evaluated per Class
- Primarily Public School Students
- Primarily 4-6 Grade Students
- 48% Male, 52% Female
- When Gifted Program was Available, 31% Enrolled
- 80% Caucasian-American, 4% Asian-American, 7% Hispanic American, 8% African-American, 1% Native American
- 26% Urban, 64% Suburban, 10% Rural

Cronbach's Alpha Reliabilities



SCALES FOR RATING THE BEHAVIORAL CHARACTERISTICS OF SUPERIOR STUDENTS

Student's Name (or Assigned Code No.) _____
(please fill in)

MATHEMATICS CHARACTERISTICS

© 2003 M. Katherine Gavin

The student . . .

	Never	Very Rarely	Rarely	Occasionally	Frequently	Always
1. is eager to solve challenging math problems (A problem is defined as a task for which the solution is not known in advance).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. organizes data and information to discover mathematical patterns.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. enjoys challenging math puzzles, games, and logic problems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. understands new math concepts and processes more easily than other students.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. has creative (unusual and divergent) ways of solving math problems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. displays a strong number sense (e.g., makes sense of large and small numbers, estimates easily and appropriately).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. frequently solves math problems abstractly, without the need for manipulatives or concrete materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. has an interest in analyzing the mathematical structure of a problem.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. when solving a math problem, can switch strategies easily, if appropriate or necessary.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. regularly uses a variety of representations to explain math concepts (written explanations, pictorial, graphic, equations, etc.).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Add Column Total:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Multiply by Weight:

<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>	<input type="text" value="6"/>
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Add Weighted Column Totals:

<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>
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Scale Total:

SCALES FOR RATING THE BEHAVIORAL CHARACTERISTICS OF SUPERIOR STUDENTS

Student's Name (or Assigned Code No.) _____
(please fill in)

SCIENCE CHARACTERISTICS

© 2003 Rachel E. Sytsma

The student...

	Never	Very Rarely	Rarely	Occasionally	Frequently	Always
1. demonstrates curiosity about scientific processes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. demonstrates creative thinking about scientific debates or issues.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. demonstrates enthusiasm in discussion of scientific topics.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. is curious about why things are as they are.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. reads about science-related topics in his/her free time.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. expresses interest in science project or research.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. clearly articulates data interpretation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Add Column Total:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Multiply by Weight:

<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>	<input type="text" value="6"/>
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Add Weighted Column Totals:

<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>
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Scale Total:

SCALES FOR RATING THE BEHAVIORAL CHARACTERISTICS OF SUPERIOR STUDENTS

Student's Name (or Assigned Code No.) _____
(please fill in)

READING CHARACTERISTICS

© 2003 Sally M. Reis

The student...	Never	Very Rarely	Rarely	Occasionally	Frequently	Always					
1. eagerly engages in reading related activities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
2. applies previously learned literary concepts to new reading experiences.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
3. focuses on reading for an extended period of time.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
4. pursues advanced reading material.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
5. demonstrates tenacity when posed with challenging reading.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6. shows interest in reading other types of interest-based reading materials.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Add Column Total:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Multiply by Weight:	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>	<input type="text" value="6"/>					
Add Weighted Column Totals:	<input type="checkbox"/>	+	<input type="checkbox"/>	+	<input type="checkbox"/>	+	<input type="checkbox"/>	+	<input type="checkbox"/>	+	<input type="checkbox"/>
Scale Total:											<input style="width: 50px; height: 20px;" type="text"/>

SCALES FOR RATING THE BEHAVIORAL CHARACTERISTICS OF SUPERIOR STUDENTS

Student's Name (or Assigned Code No.) _____
(please fill in)

TECHNOLOGY CHARACTERISTICS

© 2003 Del Siegle

The student...

	Never	Very Rarely	Rarely	Occasionally	Frequently	Always
1. demonstrates a wide range of technology skills.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. learns new software without formal training.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. spends free time developing technology skills.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. assists others with technology related problems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. incorporates technology in developing creative products/ assignments/presentations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. eagerly pursues opportunities to use technology.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. demonstrates more advanced technology skills than other students his or her age.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Add Column Total:

Multiply by Weight: 1 2 3 4 5 6

Add Weighted Column Totals: + + + + + +

Scale Total: