

Appendices for
CMAS Technical Report
2016-2017

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APPENDIX A: SAMPLE SCORE REPORTS

Science Performance Level Descriptions

Students demonstrate mastery of science concepts and 21st century skills aligned to the Colorado Academic Standards at various performance levels. The performance level descriptors are organized in a manner that assumes students demonstrating higher levels of command have mastered the concepts and skills within the lower levels. For example, a student at moderate command also masters the concepts and skills of limited command.

Students who Exceeded Expectations demonstrated distinguished command of the Colorado Academic Standards and can typically

- evaluate and provide feedback on scientific evidence and reasoning about the separation of mixtures and how separation affects the total weight/mass;
- develop hypotheses about why similarities and differences exist between the body systems and parts of humans, plants, and animals;
- evaluate scientific claims about natural resources, in terms of reasonability and validity; and
- assess and provide feedback, through reasoning based on evidence, on scientific explanations about weather and factors that change Earth's surface.

Students who Met Expectations demonstrated strong command of the Colorado Academic Standards and can typically

- explain why certain procedures that are used to separate simple mixtures work and discuss any unexpected results;
- evaluate evidence and models of the structure and functions of human, plant, and animal organs and organ systems;
- investigate and generate evidence that human systems are interdependent;
- analyze and interpret data to explore concerns associated with natural resources; and
- formulate testable questions and scientific explanations around weather and factors that change Earth's surface.

Students who Approached Expectations demonstrated moderate command of the Colorado Academic Standards and can typically

- discuss how the mass/weight of a mixture is a sum of its parts and design a procedure to separate simple mixtures based on physical properties;
- create models of human, plant, and animal organ systems, and compare and contrast similarities and differences between the organisms;
- explore and describe the origins and usage of natural resources in Colorado; and
- interpret data about Earth, including weather and changes to Earth's surface.

Students who Partially Met Expectations demonstrated limited command of the Colorado Academic Standards and can typically

- select appropriate tools and follow procedures to separate simple mixtures;
- identify how humans, plants, and animals address basic survival needs;
- identify the functions of human body systems;
- distinguish between renewable and nonrenewable resources; and
- use appropriate tools and resources to gather data regarding weather conditions and Earth processes.

For more information about the standards included in this assessment, please visit the Colorado Department of Education's website at www.cde.state.co.us/standardsandinstruction



Student Performance Report

Colorado Measures of Academic Success

Student: **SAMPSTUDENT 153 J. SAMPLELAST**

SASID: 2016050151 Birthdate: 01/22/2005
 School: SAMPLE SCHOOL ONE (1602)
 District: SAMPLE DISTRICT ONE (8000)

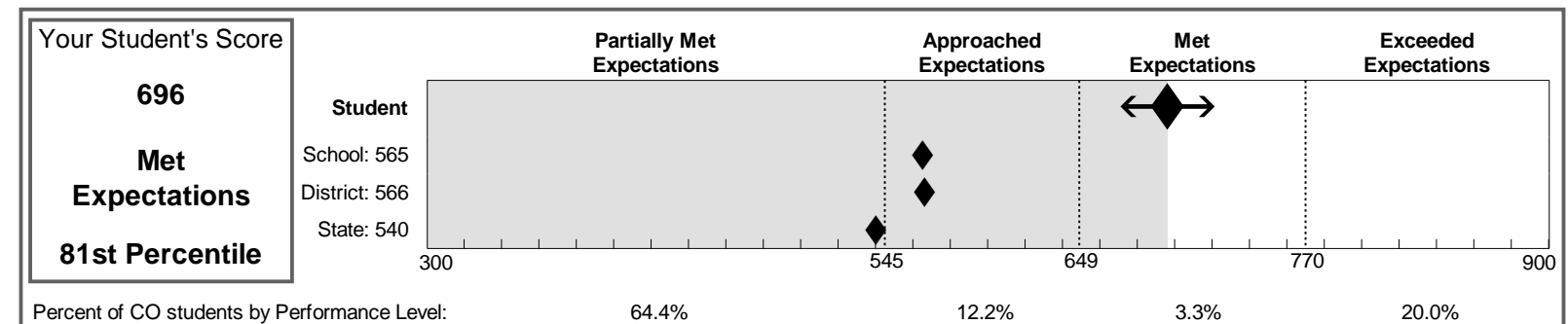
Spring 2016

Science

Grade 5

This score report provides information about your student's performance on the Colorado Measures of Academic Success (CMAS) Science Assessment.

- Your student's performance is represented by a scale score, a performance level, and a percentile rank. (Scores are placed on a scale so that student performance can be compared across years.)
- On the graph, scale scores are represented by diamonds. The arrows around the student's diamond show the range of scores that your student would likely receive if the assessment was taken multiple times.
- School, district, and state averages are provided so that you can compare your student's performance to the performance of others. The percentage of students in each performance level across the state is reported below the graph.
- Dotted lines show where the range of scores is divided into performance levels. Descriptions of the performance levels can be found at the end of this report.



The Colorado Academic Standards include expectations for student performance. Your student demonstrated a strong command of 5th grade level concepts and skills in science.

Subscale Performance

- The shaded areas in the table below represent approximately 70% of student scores across the state.
- Scores outside of the shaded area indicate a potential weakness or strength compared to the state.

Reporting Category Description	Subscale Score	Potential Relative Weakness	Typical	Potential Relative Strength
Physical Science Students know and understand common properties, forms, and changes in matter and energy.	728	468	723	723
	575			
	575			
Life Science Students know and understand the characteristics and structure of living things, the processes of life, and how living things interact with each other and their environment.	686	477	718	718
	556			
	558			
Earth Systems Science Students know and understand the processes and interactions of Earth's systems and the structure and dynamics of Earth and other objects in space.	687	475	718	718
	569			
	569			
Scientific Investigations and the Nature of Science Students understand the processes of scientific investigation and design, conducting and evaluating, as well as communicating about, such investigations. Students understand that the nature of science involves a particular way of building knowledge and making meaning of the natural world.	711	471	717	717
	573			
	573			

Purpose

This report describes your student's mastery of the Colorado Academic Standards in Science.

For more information on the CMAS assessment program, visit:

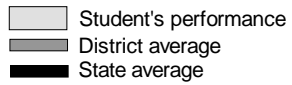
www.cde.state.co.us/assessment

Science

Grade 5

Performance by Prepared Graduate Competencies (PGCs) and Grade Level Expectations (GLEs)

- Within each standard, PGCs are identified. PGCs represent the concepts and skills that students need to master in order to be college and career ready.
- GLEs are grade-specific expectations that indicate a student is making progress toward the PGCs.
- The figure below shows the percentage of items that your student answered correctly for each GLE represented in the grade. If there is more than one GLE for a PGC, the percentage of items your student answered correctly by PGC is also provided.

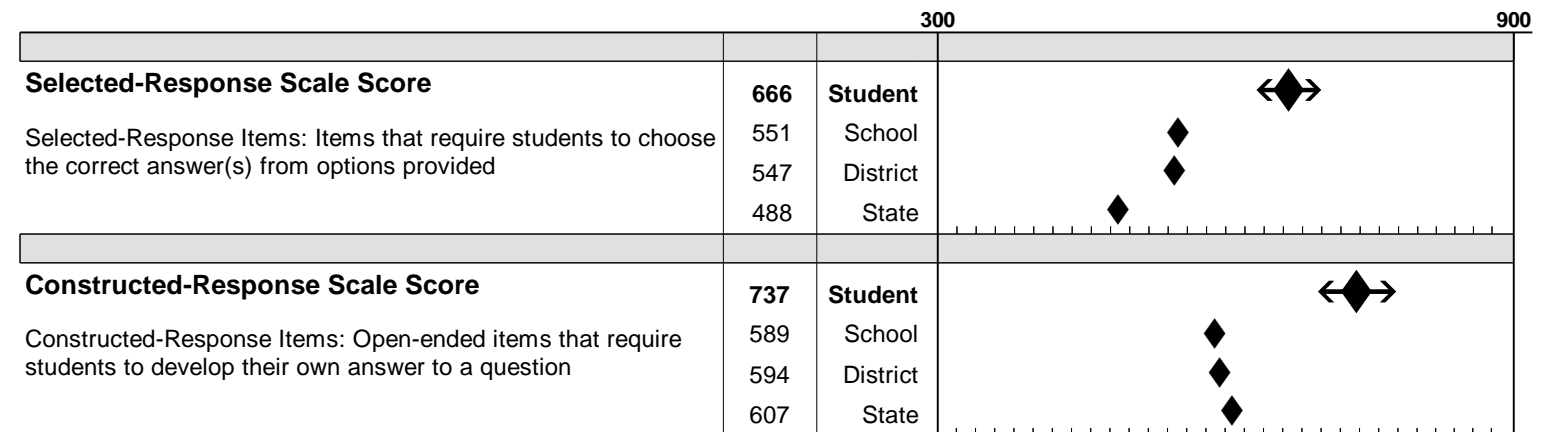


Standard, PGC, and GLE	Points Possible	Percent Correct*	Percent Correct*				
			0%	25%	50%	75%	100%
Physical Science							
PGC 1: Apply an understanding of atomic and molecular structure to explain the properties of matter, and predict outcomes of chemical and nuclear reactions							
GLE 1: Mixtures of matter can be separated regardless of how they were created; all weight and mass of the mixture are the same as the sum of weight and mass of its parts	20	75%					
Life Science							
PGC 1: Analyze how various organisms grow, develop, and differentiate during their lifetimes based on an interplay between genetics and their environment							
GLE 1: All organisms have structures and systems with separate functions	13	62%					
PGC 2: Analyze the relationship between structure and function in living systems at a variety of organizational levels, and recognize living systems' dependence on natural selection							
GLE 2: Human body systems have basic structures, functions, and needs	17	71%					
Earth Systems Science							
PGC 1: Describe how humans are dependent on the diversity of resources provided by Earth and Sun							
GLE 1: Earth and sun provide a diversity of renewable and nonrenewable resources	10	70%					
PGC 2: Evaluate evidence that Earth's geosphere, atmosphere, hydrosphere, and biosphere interact as a complex system	20	65%					
GLE 2: Earth's surface changes constantly through a variety of processes and forces	9	67%					
GLE 3: Weather conditions change because of the uneven heating of Earth's surface by the Sun's energy. Weather changes are measured by differences in temperature, air pressure, wind, and water in the atmosphere and type of precipitation	11	64%					

*Percent correct scores cannot be compared across years because individual items change from year to year. They also cannot be compared across GLEs and PGCs because the number of items and the difficulty of items may not be the same.

Performance by Item Type

CMAS assessments include selected-response and constructed-response items. The figure below shows your student's scale score for each item type in relation to school, district, and state averages.





District School Roster

Colorado Measures of Academic Success

Spring 2016

District: **SAMPLE DISTRICT ONE (8000)**

Science

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Grade 5

Purpose: This report presents each school's performance on the overall test and content standards for your district.

Performance Levels (PL)	Scale Score Ranges
Exceeded Expectations	771-900
Met Expectations	650-770
Approached Expectations	546-649
Partially Met Expectations	300-545

- = Potential Relative Strength (PRS)
- ◐ = Typical
- = Potential Relative Weakness (PRW)

Content Standards Performance District Summary											
Physical Science			Life Science			Earth Systems Science			Scientific Investigations/ Nature of Science		
●	◐	○	●	◐	○	●	◐	○	●	◐	○
18	13	22	18	14	21	18	13	22	18	13	22
34%	25%	42%	34%	26%	40%	34%	25%	42%	34%	25%	42%

of Students in district: 18 13 22
 % of Students in district: 34% 25% 42%

State Average:
 District Average:

SCHOOL NAME	Total Number Tested	Average Scale Score	Content Standard Scale Score (SS)															
			SS	●	◐	○	SS	●	◐	○	SS	●	◐	○	SS	●	◐	○
State Average:		540	552	20%	52%	28%	521	20%	51%	29%	550	21%	51%	28%	559	20%	52%	28%
District Average:		566	575	34%	25%	42%	558	34%	26%	40%	569	34%	25%	42%	573	34%	25%	42%
SAMPLE SCHOOL EIGHT	53	467	501	22%	22%	56%	423	0%	44%	56%	453	0%	44%	56%	507	33%	11%	56%
SAMPLE SCHOOL FIVE	16	538	529	0%	92%	8%	515	0%	92%	8%	558	8%	75%	17%	572	0%	92%	8%
SAMPLE SCHOOL FOUR	28	704	705	13%	88%	0%	722	13%	88%	0%	678	13%	88%	0%	738	13%	88%	0%
SAMPLE SCHOOL ONE	453	565	575	33%	24%	43%	556	33%	26%	40%	569	33%	24%	43%	573	33%	24%	43%
SAMPLE SCHOOL ONEX	23	565	575	33%	24%	43%	556	33%	26%	40%	569	33%	24%	43%	573	33%	24%	43%
SAMPLE SCHOOL SEVEN	14	550	552	0%	92%	8%	464	0%	77%	23%	525	0%	92%	8%	625	0%	92%	8%
SAMPLE SCHOOL SIX	34	331	303	0%	0%	100%	300	0%	0%	100%	300	0%	0%	100%	391	0%	33%	67%
SAMPLE SCHOOL THREE	153	667	656	25%	50%	25%	693	63%	13%	25%	633	38%	38%	25%	675	38%	38%	25%

Note: Students with no scores are not included in summary calculations.



District School Roster

Colorado Measures of Academic Success

Spring 2016

District: **SAMPLE DISTRICT ONE (8000)**

Science

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Grade 5

Purpose: This report presents each school's performance on the prepared graduate competencies and grade level expectations for your district. Percent correct for each GLE is presented. If there is more than one GLE within a PGC then percent correct by PGC is also provided.

Prepared Graduate Competencies (PGC) and Grade Level Expectations (GLE) Performance						
Physical Science	Life Science		Earth Systems Science			
Points Possible						
20	13	17	10	20	9	11
PGC1 GLE1	PGC1 GLE1	PGC2 GLE2	PGC1 GLE1	PGC2	GLE2	GLE3
State Average: 41%	38%	37%	42%	41%	42%	41%
District Average: 45%	43%	44%	45%	45%	44%	46%
SAMPLE SCHOOL EIGHT	32%	19%	15%	19%	24%	24%
SAMPLE SCHOOL FIVE	38%	40%	35%	48%	44%	52%
SAMPLE SCHOOL FOUR	67%	59%	56%	56%	54%	58%
SAMPLE SCHOOL ONE	46%	43%	43%	45%	46%	44%
SAMPLE SCHOOL ONEX	46%	43%	43%	45%	46%	44%
SAMPLE SCHOOL SEVEN	34%	25%	22%	30%	17%	17%
SAMPLE SCHOOL SIX	0%	8%	11%	8%	4%	4%
SAMPLE SCHOOL THREE	61%	61%	62%	52%	58%	58%

SCHOOL NAME

Note: Students with no scores are not included in summary calculations.



District Performance Level Summary

Colorado Measures of Academic Success

Spring 2016

District: **SAMPLE DISTRICT ONE (8000)**

Science

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Grade 5

Purpose: This report describes group achievement in terms of performance levels and average scale scores.

	Number of Valid Scores	Average Scale Score	Performance Levels								Met and Exceeded		No Scores Reported	Total Number of Students
			Partially Met Expectations		Approached Expectations		Met Expectations		Exceeded Expectations		#	%		
			#	%	#	%	#	%	#	%				
State	90	540	58	64.4%	11	12.2%	3	3.3%	18	20.0%	21	23.3%	5	626
District	53	566	28	52.8%	6	11.3%	1	1.9%	18	34.0%	19	35.9%	0	474
Gender														
Female	34	579	16	47.1%	6	17.6%	1	2.9%	11	32.4%	12	35.3%	0	313
Male	19	542	12	63.2%	0	0.0%	0	0.0%	7	36.8%	7	36.8%	0	161
Ethnicity/Race														
Hispanic or Latino	10	482	7	70.0%	0	0.0%	0	0.0%	3	30.0%	3	30.0%	0	49
American Indian or Alaska Native	3	700	1	33.3%	0	0.0%	0	0.0%	2	66.7%	2	66.7%	0	24
Asian	3	602	1	33.3%	1	33.3%	0	0.0%	1	33.3%	1	33.3%	0	27
Black or African-American	4	670	1	25.0%	1	25.0%	0	0.0%	2	50.0%	2	50.0%	0	29
White	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Native Hawaiian or Other Pacific Islander	3	500	2	66.7%	0	0.0%	0	0.0%	1	33.3%	1	33.3%	0	26
Two or more races	2	600	1	50.0%	0	0.0%	0	0.0%	1	50.0%	1	50.0%	0	5
Not Indicated	28	567	15	53.6%	4	14.3%	1	3.6%	8	28.6%	9	32.1%	0	289
Economic Disadvantage														
Free/Reduced Lunch Eligible	11	577	6	54.5%	1	9.1%	0	0.0%	4	36.4%	4	36.4%	0	161
Not Eligible for Free/Reduced Lunch	42	563	22	52.4%	5	11.9%	1	2.4%	14	33.3%	15	35.7%	0	313
Language Proficiency														
Not English Proficient (NEP)	2	600	1	50.0%	0	0.0%	0	0.0%	1	50.0%	1	50.0%	0	19
Limited English Proficient (LEP)	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
NEP and LEP	2	600	1	50.0%	0	0.0%	0	0.0%	1	50.0%	1	50.0%	0	19
Not NEP and LEP	51	565	27	52.9%	6	11.8%	1	2.0%	17	33.3%	18	35.3%	0	455
Fluent English Proficient	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Primary Home Language other than English	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Former English Language Learner	4	651	2	50.0%	0	0.0%	0	0.0%	2	50.0%	2	50.0%	0	26
Not in ELL Program	45	561	23	51.1%	6	13.3%	1	2.2%	15	33.3%	16	35.6%	0	373
Not Indicated	2	483	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	2

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District Performance Level Summary

Colorado Measures of Academic Success

Spring 2016

District: SAMPLE DISTRICT ONE (8000)

Science

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Grade 5

Purpose: This report describes group achievement in terms of performance levels and average scale scores.

	Number of Valid Scores	Average Scale Score	Performance Levels								Met and Exceeded		No Scores Reported	Total Number of Students
			Partially Met Expectations		Approached Expectations		Met Expectations		Exceeded Expectations		#	%		
			#	%	#	%	#	%	#	%			#	#
Language Background														
English	2	397	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	16
Spanish	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Other	5	581	3	60.0%	0	0.0%	0	0.0%	2	40.0%	2	40.0%	0	43
Not Indicated	46	572	23	50.0%	6	13.0%	1	2.2%	16	34.8%	17	37.0%	0	405
ELL Program - Bilingual														
No	17	612	8	47.1%	1	5.9%	0	0.0%	8	47.1%	8	47.1%	0	96
Yes	6	366	6	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	79
Monitored Y1	5	660	2	40.0%	0	0.0%	0	0.0%	3	60.0%	3	60.0%	0	58
Monitored Y2	8	429	6	75.0%	1	12.5%	0	0.0%	1	12.5%	1	12.5%	0	94
Exited Y3	7	708	1	14.3%	2	28.6%	1	14.3%	3	42.9%	4	57.1%	0	50
Parent Choice	8	592	3	37.5%	2	25.0%	0	0.0%	3	37.5%	3	37.5%	0	95
Not Indicated	2	483	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	2
ELL Program - ESL														
No	11	527	7	63.6%	1	9.1%	0	0.0%	3	27.3%	3	27.3%	0	124
Yes	17	610	6	35.3%	4	23.5%	1	5.9%	6	35.3%	7	41.2%	0	112
Monitored Y1	8	517	5	62.5%	1	12.5%	0	0.0%	2	25.0%	2	25.0%	0	78
Monitored Y2	4	600	2	50.0%	0	0.0%	0	0.0%	2	50.0%	2	50.0%	0	28
Exited Y3	5	664	2	40.0%	0	0.0%	0	0.0%	3	60.0%	3	60.0%	0	30
Parent Choice	6	500	4	66.7%	0	0.0%	0	0.0%	2	33.3%	2	33.3%	0	100
Not Indicated	2	483	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	2
Students with Disabilities														
IEP - Yes	8	675	3	37.5%	0	0.0%	0	0.0%	5	62.5%	5	62.5%	0	43
IEP- No	45	547	25	55.6%	6	13.3%	1	2.2%	13	28.9%	14	31.1%	0	431
504	8	577	4	50.0%	1	12.5%	0	0.0%	3	37.5%	3	37.5%	0	32

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District Performance Level Summary

Colorado Measures of Academic Success

Spring 2016

District: **SAMPLE DISTRICT ONE (8000)**

Science

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Grade 5

Purpose: This report describes group achievement in terms of performance levels and average scale scores.

	Number of Valid Scores	Average Scale Score	Performance Levels								Met and Exceeded		No Scores Reported	Total Number of Students
			Partially Met Expectations		Approached Expectations		Met Expectations		Exceeded Expectations		#	%		
			#	%	#	%	#	%	#	%			#	#
Primary Disability														
Intellectual Disability	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Specific Learning Disability	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Hearing Impairment, including Deafness	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Visual Impairment, including Blindness	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Speech or Language Impairment	1	300	1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	1
Deaf-Blindness	2	600	1	50.0%	0	0.0%	0	0.0%	1	50.0%	1	50.0%	0	10
Multiple Disabilities	1	900	0	0.0%	0	0.0%	0	0.0%	1	100.0%	1	100.0%	0	19
Autism Spectrum Disorders	1	900	0	0.0%	0	0.0%	0	0.0%	1	100.0%	1	100.0%	0	9
Traumatic Brain Injury (TBI)	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Orthopedic Impairment	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Other Health Impairment	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Developmental Delay	1	900	0	0.0%	0	0.0%	0	0.0%	1	100.0%	1	100.0%	0	1
Emotional Disability	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Not Collected	2	600	1	50.0%	0	0.0%	0	0.0%	1	50.0%	1	50.0%	0	3
None	45	547	25	55.6%	6	13.3%	1	2.2%	13	28.9%	14	31.1%	0	431
Gifted/Talented Designation														
No	36	559	20	55.6%	4	11.1%	1	2.8%	11	30.6%	12	33.3%	0	306
Yes	17	581	8	47.1%	2	11.8%	0	0.0%	7	41.2%	7	41.2%	0	168
Title 1														
No	28	583	13	46.4%	4	14.3%	1	3.6%	10	35.7%	11	39.3%	0	303
Yes	23	552	13	56.5%	2	8.7%	0	0.0%	8	34.8%	8	34.8%	0	169
Not Indicated	2	483	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	2
Homeless														
No	44	576	21	47.7%	6	13.6%	1	2.3%	16	36.4%	17	38.6%	0	390
Yes and in Physical Custody	3	568	2	66.7%	0	0.0%	0	0.0%	1	33.3%	1	33.3%	0	37
Yes and Not in Physical Custody	4	498	3	75.0%	0	0.0%	0	0.0%	1	25.0%	1	25.0%	0	45
Not Indicated	2	483	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	2

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District Performance Level Summary

Colorado Measures of Academic Success

Spring 2016

District: **SAMPLE DISTRICT ONE (8000)**

Science

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Grade 5

Purpose: This report describes group achievement in terms of performance levels and average scale scores.

	Number of Valid Scores	Average Scale Score	Performance Levels								Met and Exceeded		No Scores Reported	Total Number of Students
			Partially Met Expectations		Approached Expectations		Met Expectations		Exceeded Expectations		#	%		
			#	%	#	%	#	%	#	%			#	#
Migrant														
No	36	557	19	52.8%	4	11.1%	1	2.8%	12	33.3%	13	36.1%	0	320
Yes	17	585	9	52.9%	2	11.8%	0	0.0%	6	35.3%	6	35.3%	0	154
Colorado Continuously														
No	14	594	7	50.0%	1	7.1%	1	7.1%	5	35.7%	6	42.9%	0	175
Yes	37	560	19	51.4%	5	13.5%	0	0.0%	13	35.1%	13	35.1%	0	297
Not Indicated	2	483	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	2
Continuous in District														
No	12	652	5	41.7%	0	0.0%	0	0.0%	7	58.3%	7	58.3%	0	81
Yes	39	544	21	53.9%	6	15.4%	1	2.6%	11	28.2%	12	30.8%	0	391
Not Indicated	2	483	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	2
Continuous in School														
No	22	624	10	45.5%	1	4.5%	0	0.0%	11	50.0%	11	50.0%	0	191
Yes	29	528	16	55.2%	5	17.2%	1	3.5%	7	24.1%	8	27.6%	0	281
Not Indicated	2	483	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	2
Accommodations														
None	32	542	17	53.1%	6	18.8%	1	3.1%	8	25.0%	9	28.1%	0	296
Braille - paper	4	600	2	50.0%	0	0.0%	0	0.0%	2	50.0%	2	50.0%	0	4
Directions in Native Language	10	636	5	50.0%	0	0.0%	0	0.0%	5	50.0%	5	50.0%	0	76
Extended Time	4	600	2	50.0%	0	0.0%	0	0.0%	2	50.0%	2	50.0%	0	67
Human Reader/Signer	1	300	1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	1
Large Print - paper	2	600	1	50.0%	0	0.0%	0	0.0%	1	50.0%	1	50.0%	0	2
Response in Language other than English	8	646	4	50.0%	0	0.0%	0	0.0%	4	50.0%	4	50.0%	0	71
Scribe - English	8	675	3	37.5%	0	0.0%	0	0.0%	5	62.5%	5	62.5%	0	58
Text-To-Speech English	2	600	1	50.0%	0	0.0%	0	0.0%	1	50.0%	1	50.0%	0	5
Text-to-Speech Spanish	1	300	1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	2
Translation - paper	0	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Word Prediction	11	642	5	45.5%	0	0.0%	0	0.0%	6	54.5%	6	54.5%	0	61
Word to Word Dictionary	7	672	3	42.9%	0	0.0%	0	0.0%	4	57.1%	4	57.1%	0	56

This report is NOT for public review. Distribution within your school/district must be in accordance with state and federal privacy laws, and local school board policy.



District Performance Level Summary

Colorado Measures of Academic Success

Spring 2016

District: **SAMPLE DISTRICT ONE (8000)**

Science

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Grade 5

Purpose: This report describes group achievement in terms of performance levels and average scale scores.

Total Number of Students

Total Number of Students with No Scores Reported by Category	
Took Other Assessment OR Duplicate Registration/Attempt*	0
Interrupted and Not Completed	0
Withdrew Before Completion*	0
Student Test Refusal	0
Non-approved Accommodation	0
Misadministration	0
Medical Exemption*	0
Part Time Public and Part Time Home School Student*	0
Parent Excuse	0
Absent	0
State Use - Attempt not Met	421

* Not included in "Total Number Tested" and "No Scores Reported".

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District Item Analysis Report

Colorado Measures of Academic Success

Spring 2016

District: **SAMPLE DISTRICT ONE (8000)**

Science

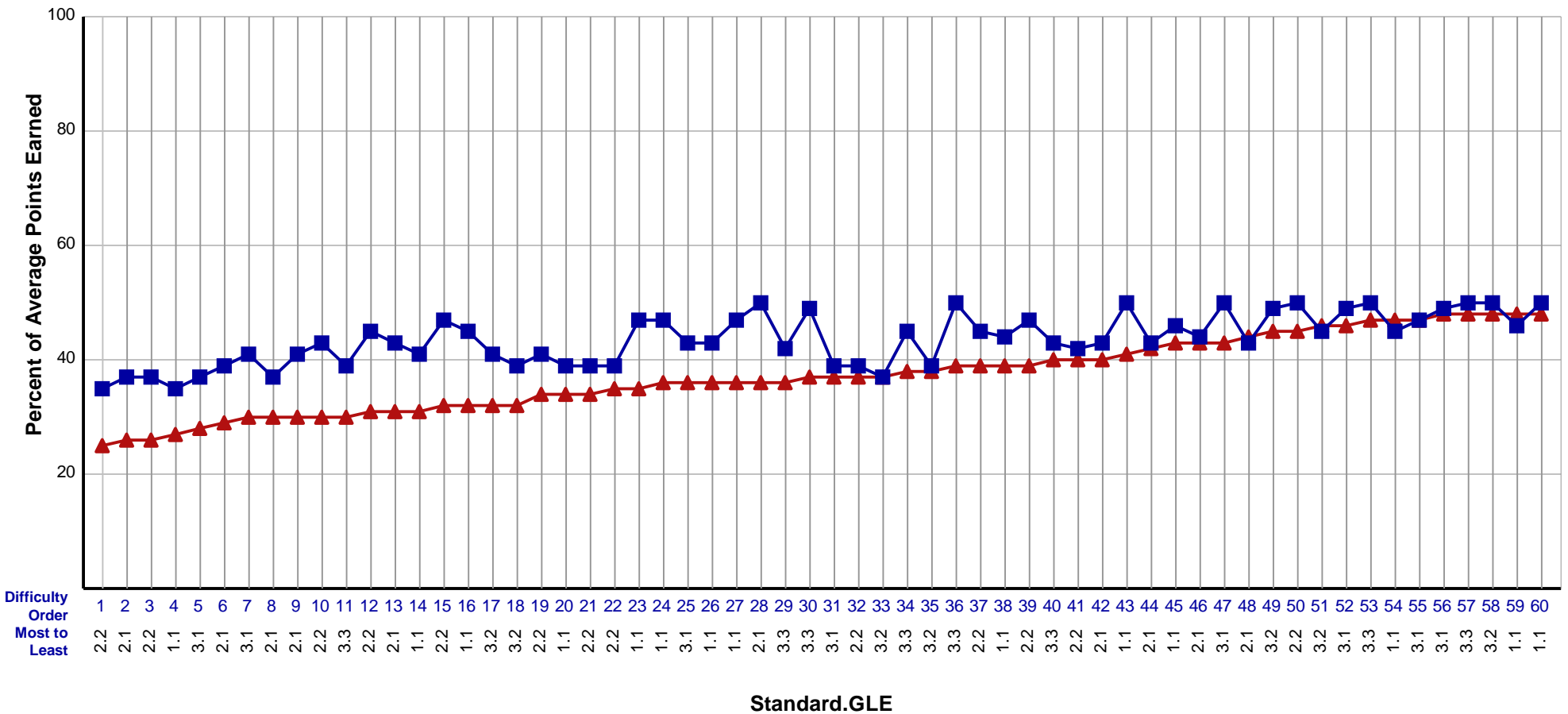
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Grade 5

Purpose: This report presents the average percent correct by item for district and state.

Students with Valid Scores (53)

▲ State
■ District



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Item Analysis Report Detail

This report shows the operational items for the given grade and subject sorted by difficulty.

Science

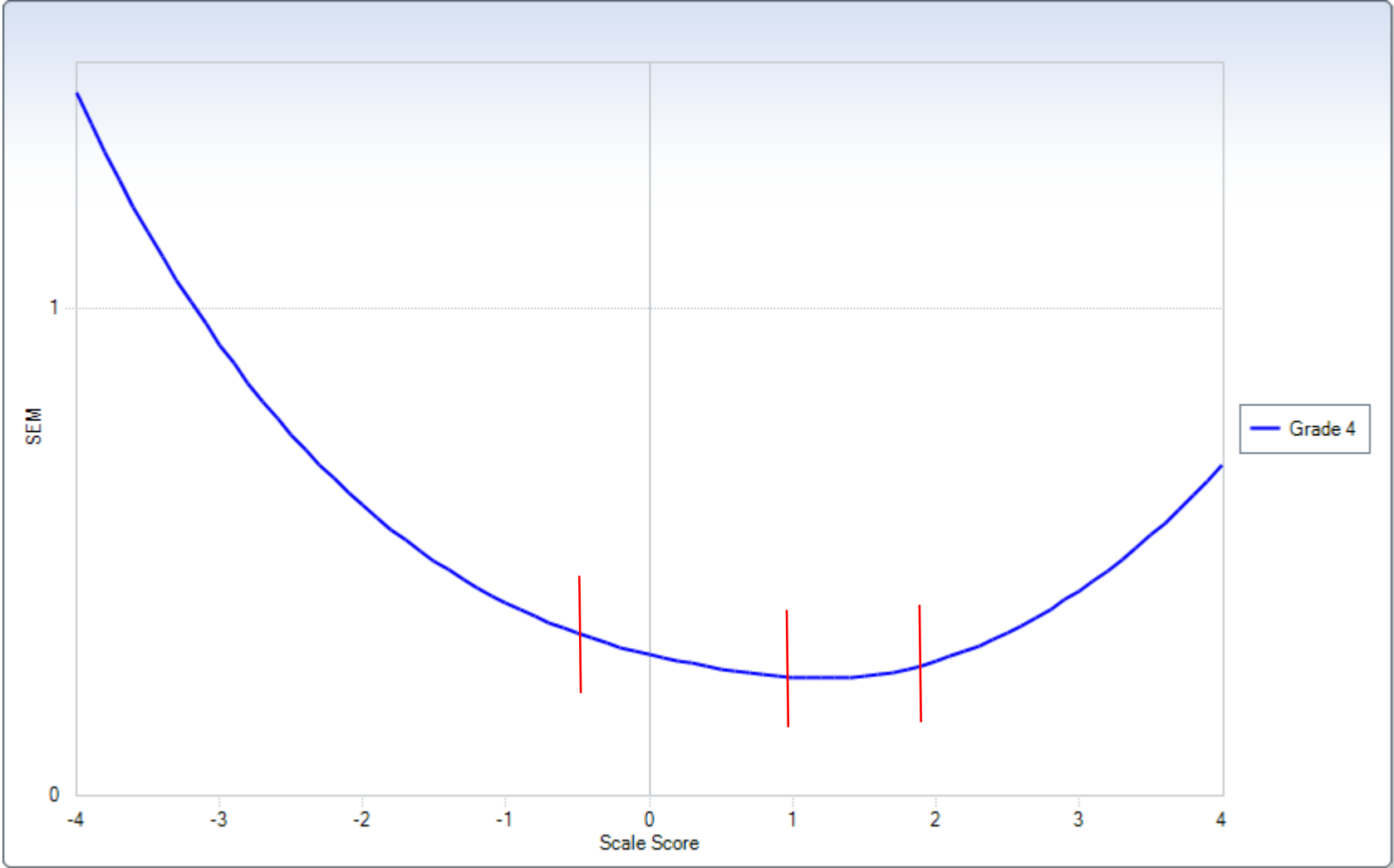
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Grade 5

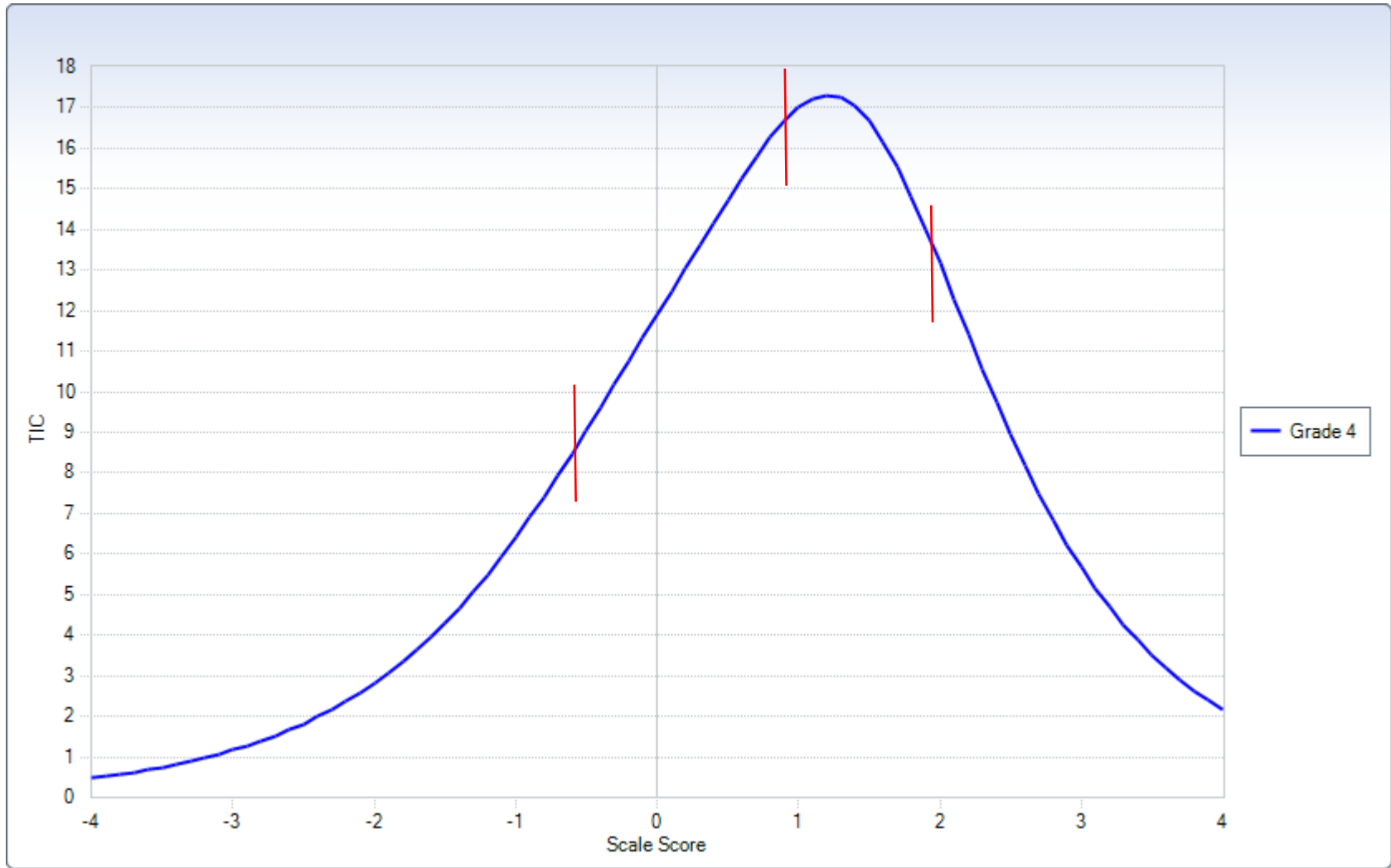
Difficulty Order Most to Least	Standard.GLE	Section-Item Number	Standard	Prepared Graduate Competencies (PGCs)	Grade Level Expectations (GLEs)	Item Type Selected Response (SR) Constructed Response (CR)
1	2.2	2-020	Life Science	PGC2	GLE2	SR
2	2.1	2-014	Life Science	PGC1	GLE1	SR
3	2.2	2-015	Life Science	PGC2	GLE2	SR
4	1.1	2-024	Physical Science	PGC1	GLE1	SR
5	3.1	1-007	Earth Systems Science	PGC1	GLE1	SR
6	2.1	2-016	Life Science	PGC1	GLE1	SR
7	3.1	1-014	Earth Systems Science	PGC1	GLE1	SR
8	2.1	1-020	Life Science	PGC1	GLE1	SR
9	2.1	2-004	Life Science	PGC1	GLE1	SR
10	2.2	2-005	Life Science	PGC2	GLE2	SR
11	3.3	2-007	Earth Systems Science	PGC2	GLE3	SR
12	2.2	1-024	Life Science	PGC2	GLE2	SR
13	2.1	2-019	Life Science	PGC1	GLE1	SR
14	1.1	2-021	Physical Science	PGC1	GLE1	SR
15	2.2	1-005	Life Science	PGC2	GLE2	SR
16	1.1	2-023	Physical Science	PGC1	GLE1	SR
17	3.2	3-014	Earth Systems Science	PGC2	GLE2	SR
18	3.2	3-017	Earth Systems Science	PGC2	GLE2	SR
19	2.2	1-011	Life Science	PGC2	GLE2	SR
20	1.1	2-012	Physical Science	PGC1	GLE1	SR
21	2.2	3-023	Life Science	PGC2	GLE2	SR
22	2.2	2-011	Life Science	PGC2	GLE2	SR
23	1.1	3-015	Physical Science	PGC1	GLE1	SR
24	1.1	1-004	Physical Science	PGC1	GLE1	SR
25	3.1	1-010	Earth Systems Science	PGC1	GLE1	SR
26	1.1	3-005	Physical Science	PGC1	GLE1	SR
27	1.1	3-020	Physical Science	PGC1	GLE1	SR
28	2.1	3-021	Life Science	PGC1	GLE1	SR
29	3.3	3-013	Earth Systems Science	PGC2	GLE3	CR-3
30	3.3	1-015	Earth Systems Science	PGC2	GLE3	SR
31	3.1	1-021	Earth Systems Science	PGC1	GLE1	SR
32	2.2	3-010	Life Science	PGC2	GLE2	SR
33	3.2	3-012	Earth Systems Science	PGC2	GLE2	SR
34	3.3	3-004	Earth Systems Science	PGC2	GLE3	SR
35	3.2	3-011	Earth Systems Science	PGC2	GLE2	SR
36	3.3	1-012	Earth Systems Science	PGC2	GLE3	SR
37	2.2	1-013	Life Science	PGC2	GLE2	CR-3
38	1.1	2-013	Physical Science	PGC1	GLE1	CR-3
39	2.2	3-024	Life Science	PGC2	GLE2	SR
40	3.3	2-010	Earth Systems Science	PGC2	GLE3	SR
41	2.2	2-017	Life Science	PGC2	GLE2	CR-2
42	2.1	3-006	Life Science	PGC1	GLE1	SR
43	1.1	1-023	Physical Science	PGC1	GLE1	SR
44	2.1	3-009	Life Science	PGC1	GLE1	CR-2
45	1.1	3-018	Physical Science	PGC1	GLE1	CR-2
46	2.1	2-018	Life Science	PGC1	GLE1	CR-2
47	3.1	3-007	Earth Systems Science	PGC1	GLE1	SR
48	2.1	3-008	Life Science	PGC1	GLE1	CR-2
49	3.2	1-006	Earth Systems Science	PGC2	GLE2	CR-2
50	2.2	3-022	Life Science	PGC2	GLE2	CR-2
51	3.2	2-008	Earth Systems Science	PGC2	GLE2	CR-2
52	3.1	2-022	Earth Systems Science	PGC1	GLE1	CR-2
53	3.3	1-022	Earth Systems Science	PGC2	GLE3	CR-2
54	1.1	2-003	Physical Science	PGC1	GLE1	CR-2
55	3.1	2-009	Earth Systems Science	PGC1	GLE1	CR-2
56	3.1	1-008	Earth Systems Science	PGC1	GLE1	SR
57	3.3	2-006	Earth Systems Science	PGC2	GLE3	SR
58	3.2	3-016	Earth Systems Science	PGC2	GLE2	SR
59	1.1	3-019	Physical Science	PGC1	GLE1	CR-2
60	1.1	1-009	Physical Science	PGC1	GLE1	CR-2

APPENDIX B: IRT CURVES

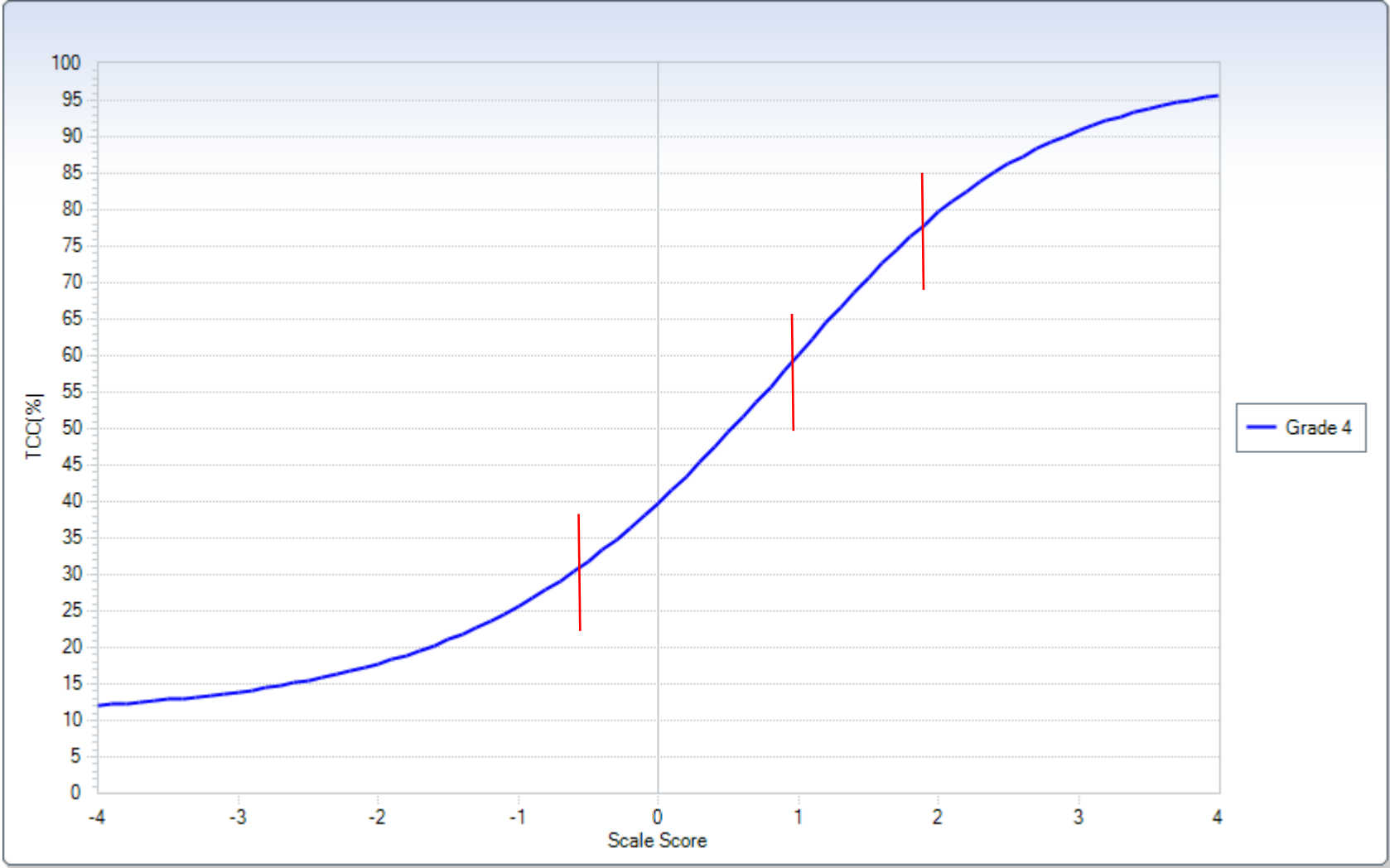
Test Summary Curves
Conditional Standard Error of Measurement Curves



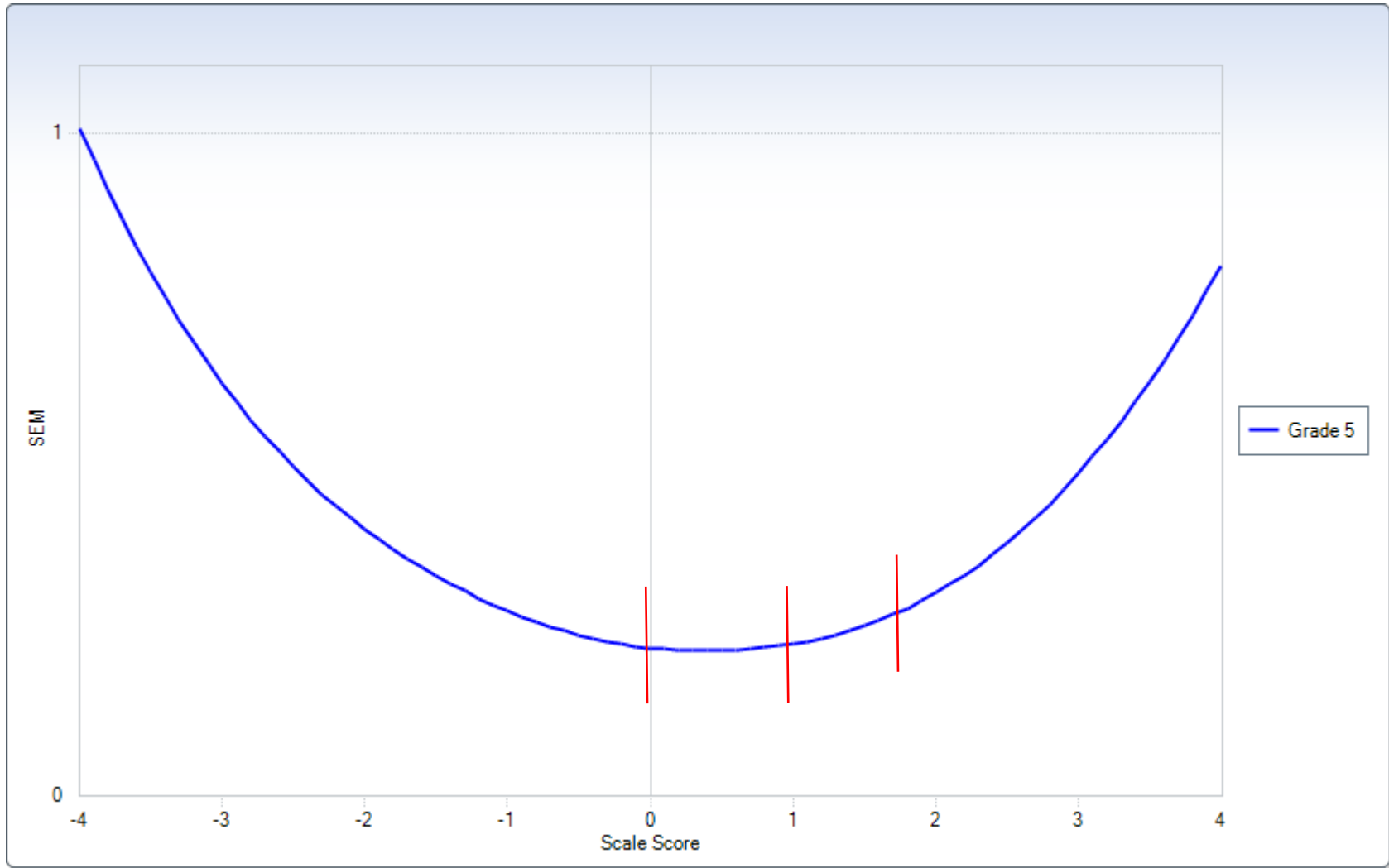
Test Summary Curves
Test Information Curves



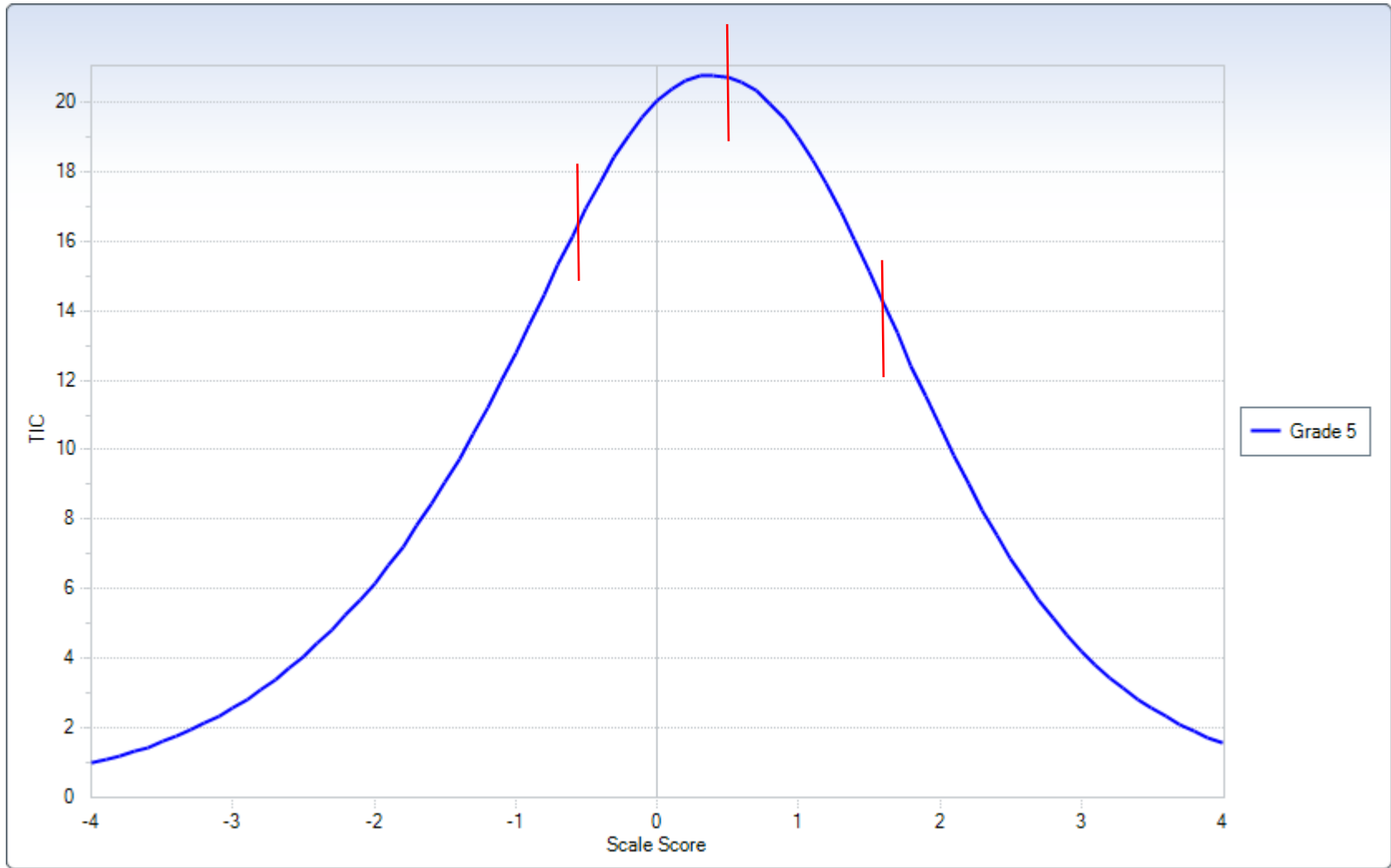
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Test Characteristic Curves (Percent)



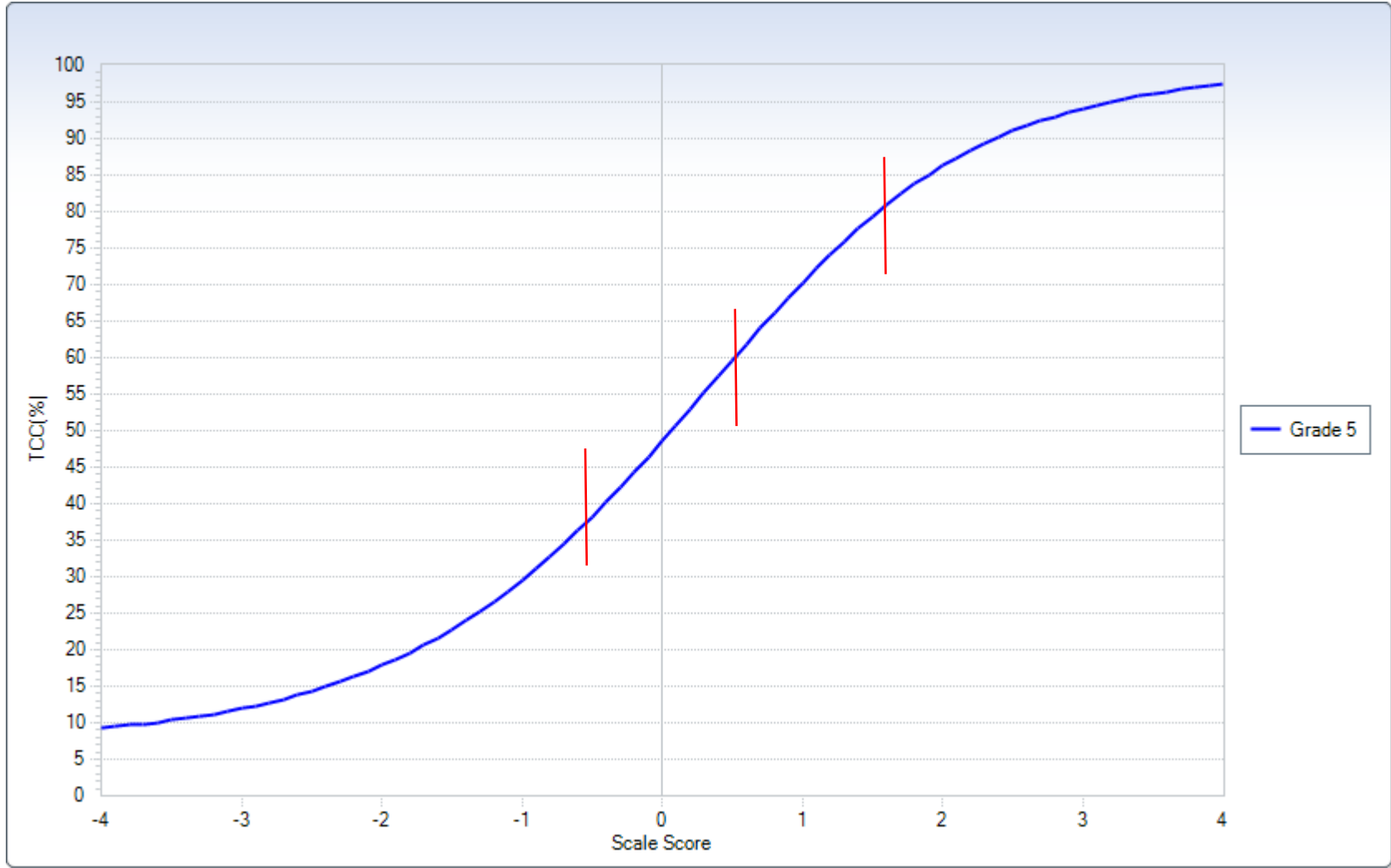
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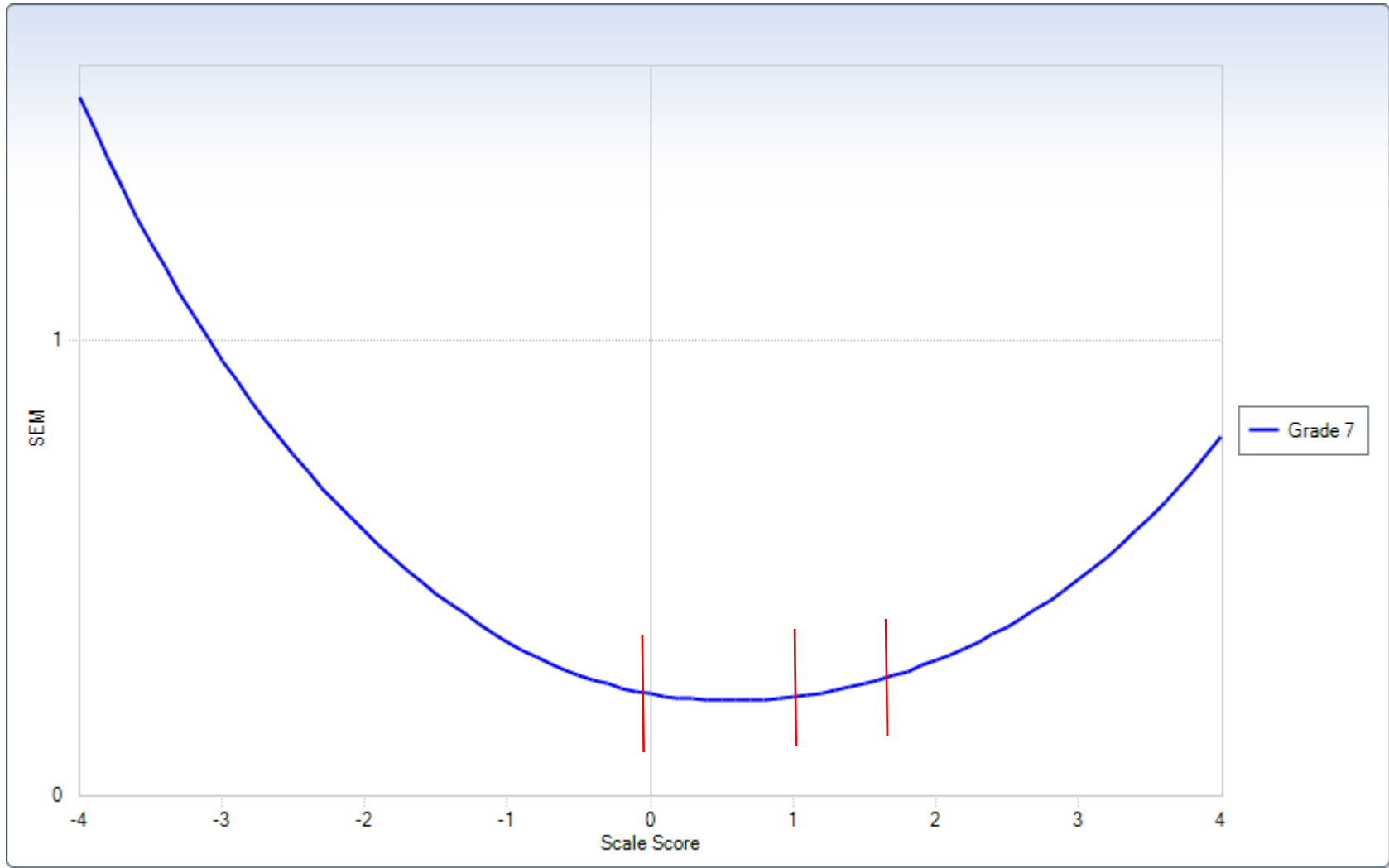
Test Summary Curves
Test Information Curves



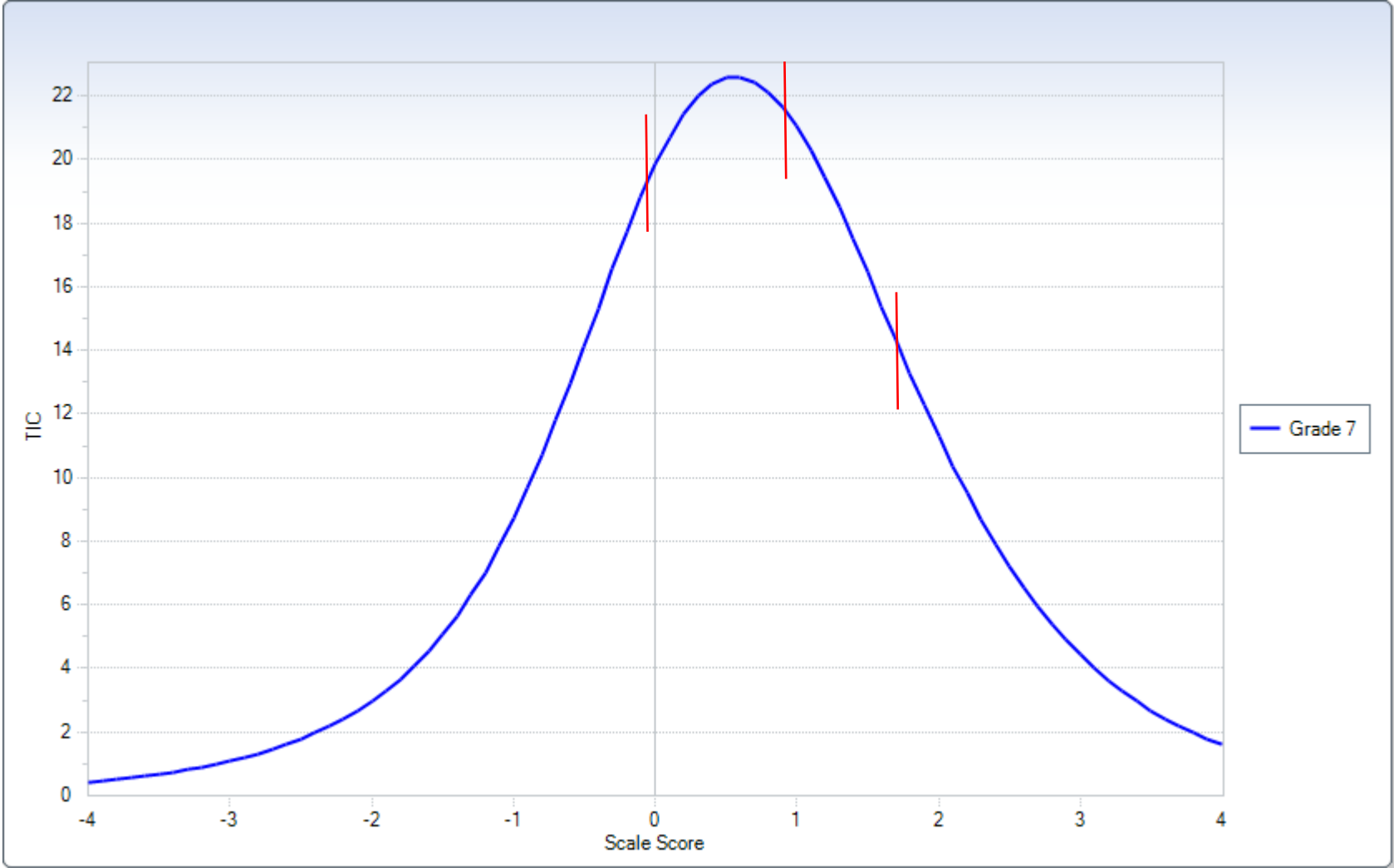
Test Summary Curves
Test Characteristic Curves (Percent)



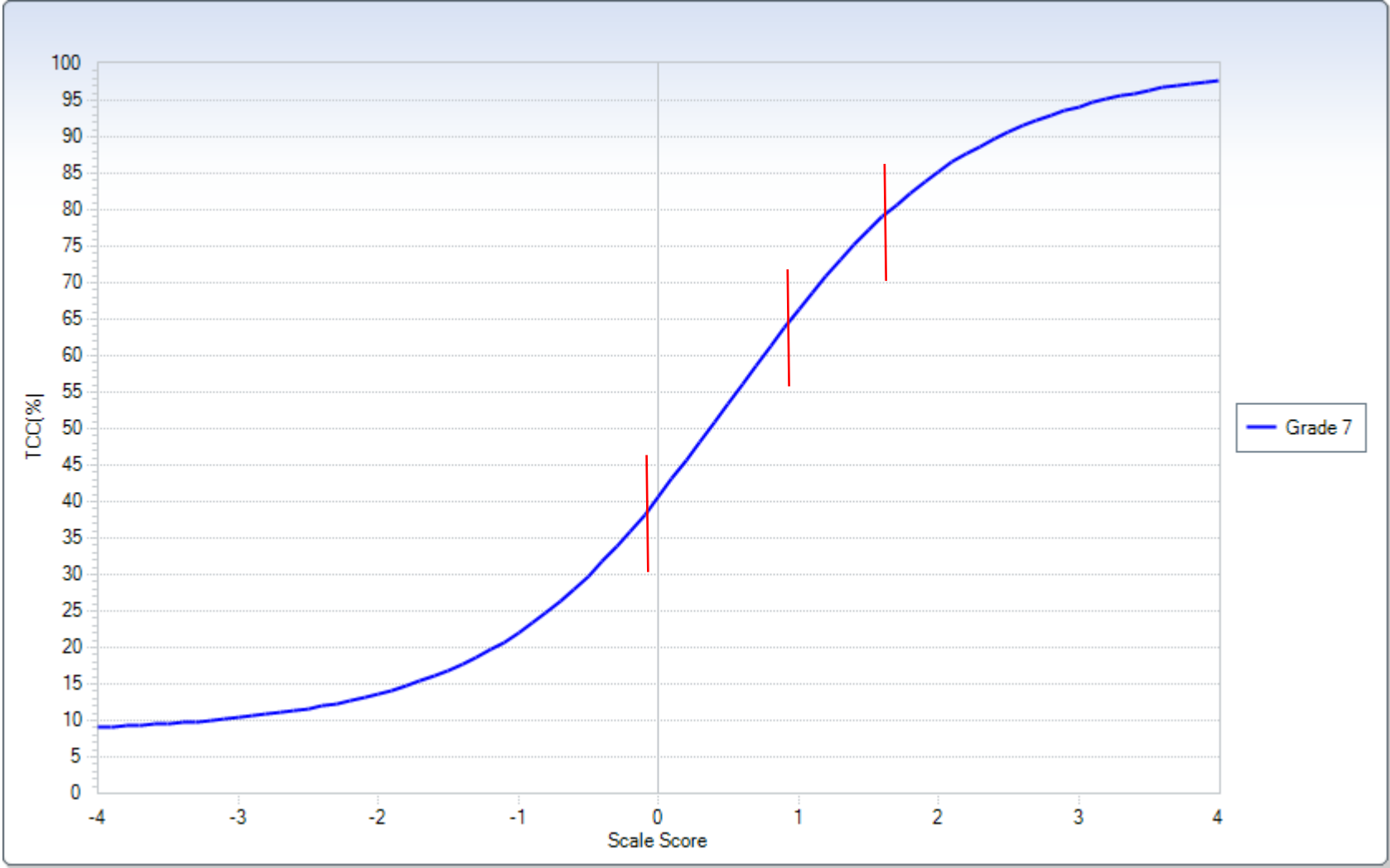
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Conditional Standard Error of Measurement Curves



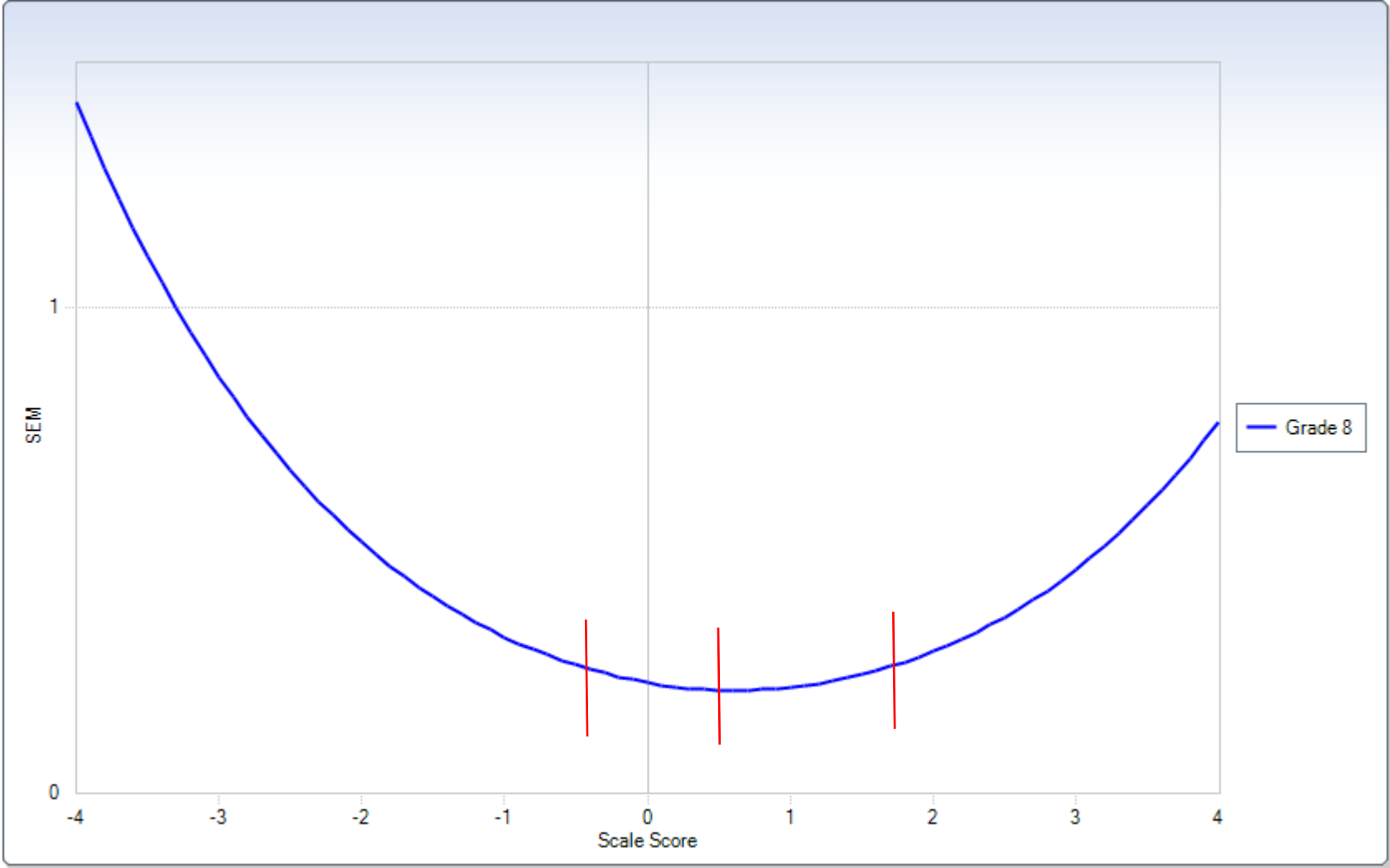
Test Summary Curves
Test Information Curves



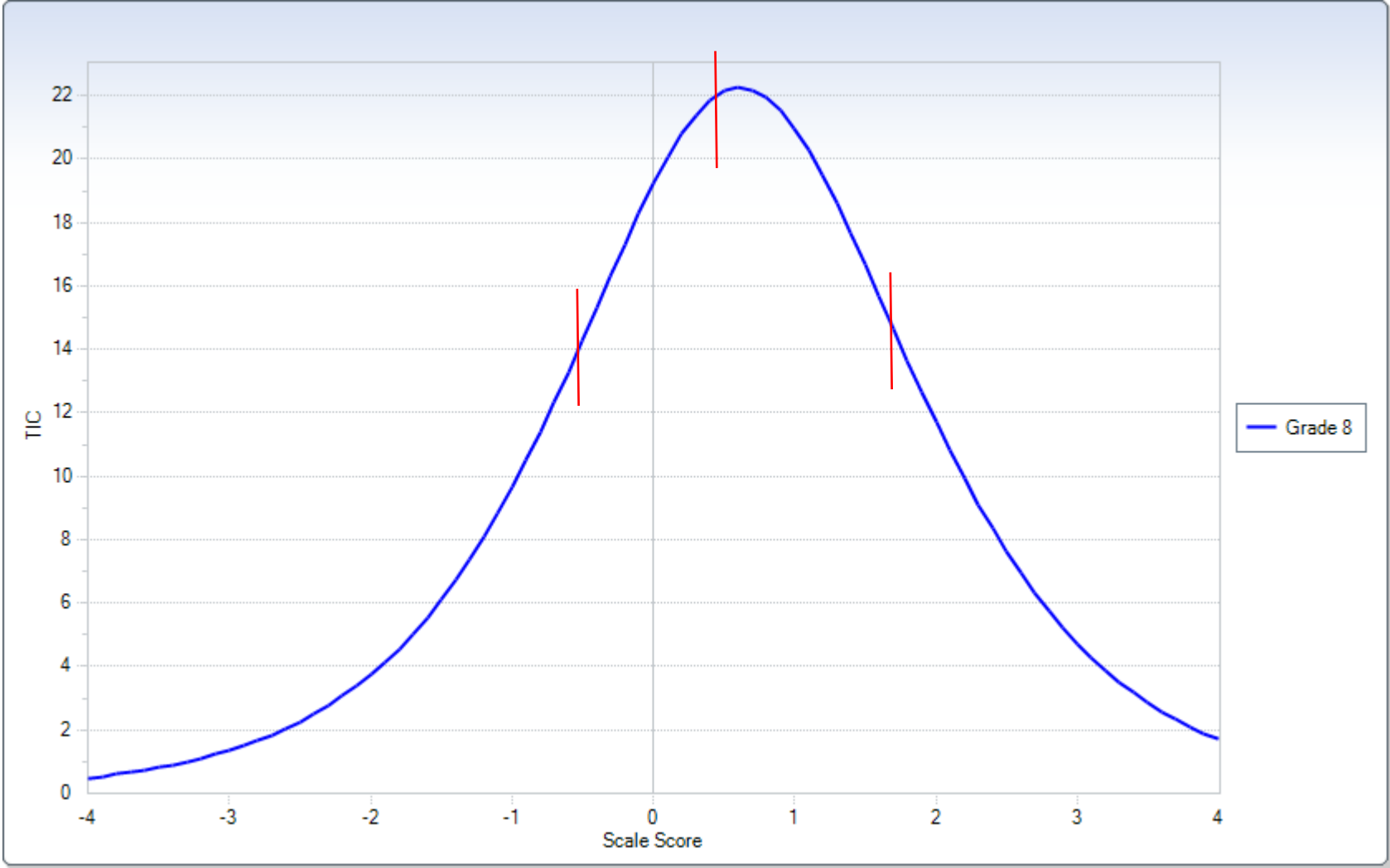
Test Summary Curves
Test Characteristic Curves (Percent)



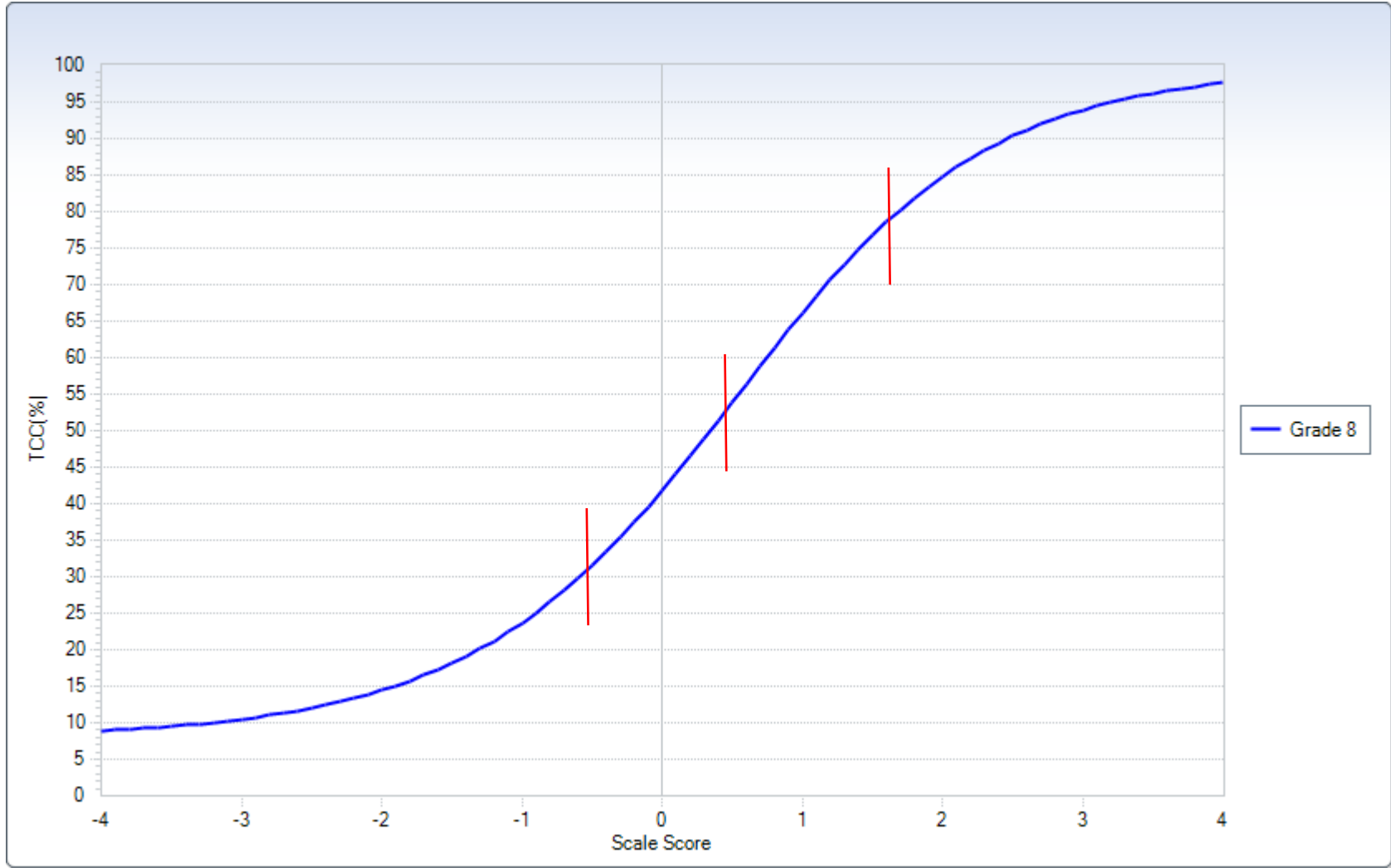
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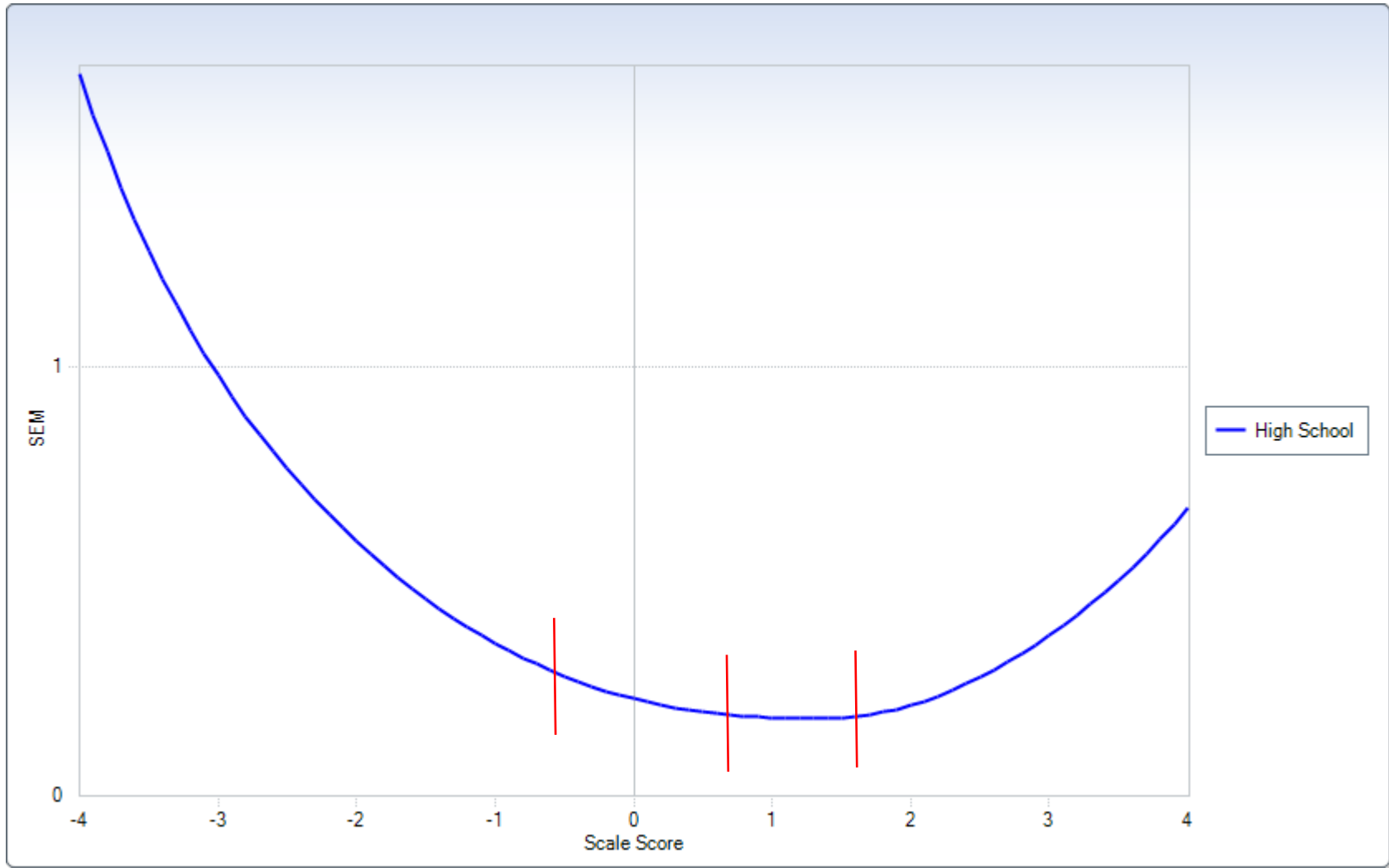
Test Summary Curves
Test Information Curves



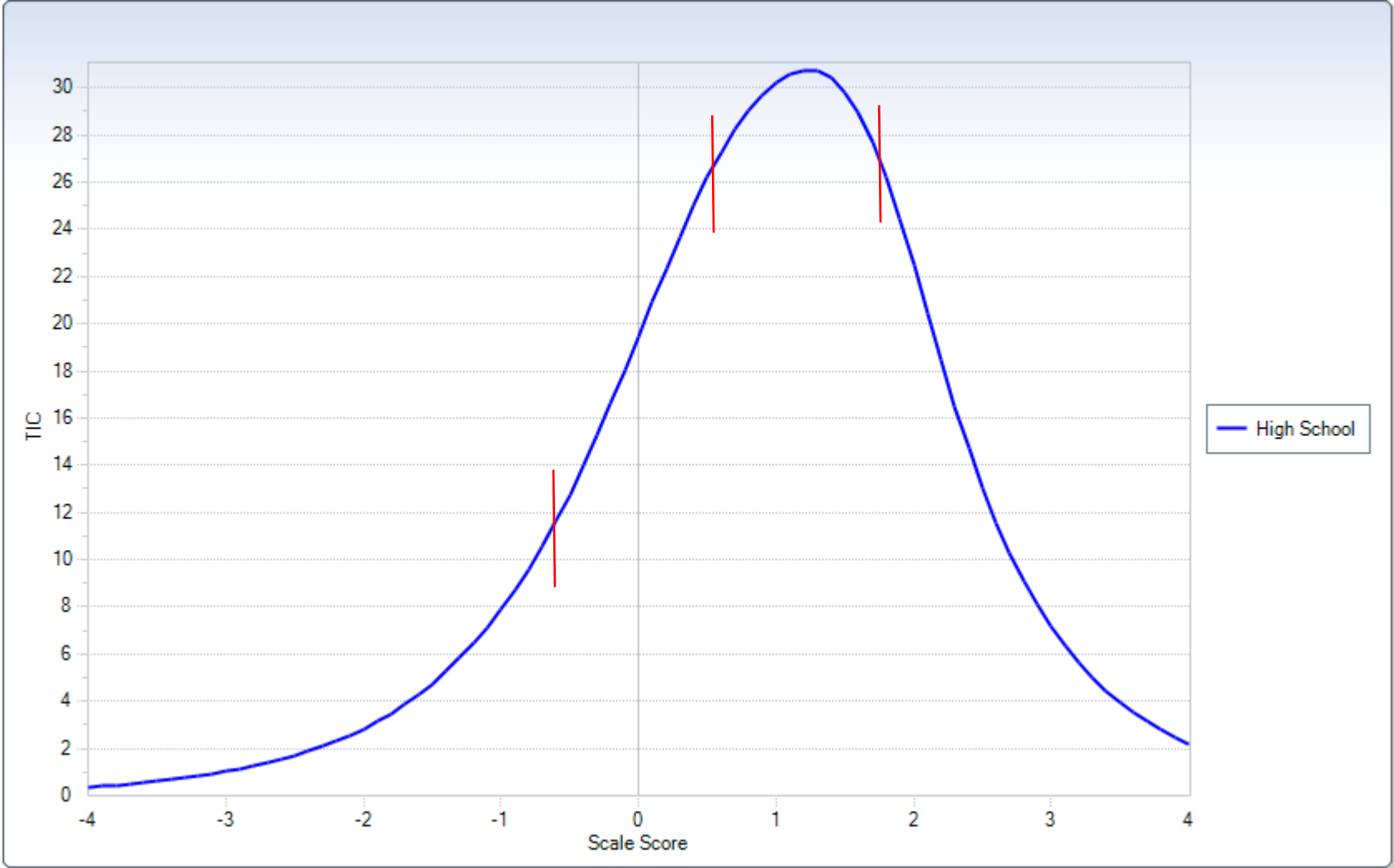
Test Summary Curves
Test Characteristic Curves (Percent)



Test Summary Curves
Conditional Standard Error of Measurement Curves



Test Summary Curves
Test Information Curves



Test Summary Curves
Test Characteristic Curves (Percent)

