

Kentucky Performance Rating for Educational Progress



2018–19 Yearbook

Version 1.0



Pearson

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Glossary of Terms

Classification accuracy: The extent to which achievement classifications from test scores match classifications if test scores contained no error of measurement.

Classification consistency: The extent to which achievement classifications from test scores match classifications from test scores of a parallel form of the same test.

Constructed-response item: Test item that requires a form of written response by the examinee.

Differential item functioning: The difference in performance on an item between subgroups of students, after controlling for differences in group achievement or score level.

Field-test items: Items used on a test for gathering performance data while not contributing to examinees' test scores.

Item response theory: Measurement theory that prescribes relationships of item difficulty and examinee proficiency for indices of test performance.

Item-test correlation: Correlation between item score and total test score.

Multiple-choice item: Test item that requires selection of response from a group of options.

Percentile rank: A numerical value indicating relative standing of performance among other examinees.

Performance level: A categorization of achievement from test performance.

P-value: The proportion of correct responses to an item (for multiple-choice items).

Quartile: A group of observations representing one-fourth of the total group.

Rasch model: Measurement model that factors proficiency and item difficulty in determining probability of item success.

Raw score: The sum of points for a test, or subdomain.

Reliability: The consistency of results obtained from a measurement.

Scale score: A score derived from a transformation of a raw score.

Standard error of measurement: A statistic, in classical test theory, expressing the interval of an examinee's true score.

Standard setting: The process of setting cut points that delineate levels of achievement.

Subdomain: A set of knowledge and skills within a larger content space.

True score: An examinee's expected score resulting from multiple replications of measurement.

Appendix A. Participation Rates¹

Students	Subgroup	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
All	Students Tested	48,951	51,165	51,981	52,125	50,515	49,788	45,388
Gender	Female	48.2%	48.9%	48.9%	49%	48.3%	48.6%	49.1%
	Male	51.8%	51.1%	51.1%	51%	51.7%	51.4%	50.9%
Ethnicity	Hispanic	7.7%	7.5%	7.7%	7.3%	7.2%	6.6%	6.1%
	Asian	1.8%	1.6%	1.7%	1.7%	1.7%	1.8%	2%
	Native Hawaiian/Pacific Islander	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%
	Black/African American	10.5%	10.5%	10.5%	10.6%	10.1%	10.5%	10.2%
	American Indian	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
	White	74.1%	74.3%	74.3%	74.6%	75.4%	76%	77.4%
	Other	4.7%	4.7%	4.5%	4.4%	4%	3.8%	2.8%
	Missing	1%	1.1%	1.1%	1.2%	1.2%	1.2%	1.3%
Migrant	Non-Migrant	99.5%	99.5%	99.5%	99.6%	99.6%	99.6%	99.7%
	Migrant	0.5%	0.5%	0.5%	0.4%	0.4%	0.4%	0.3%
LEP	Non-LEP	93.3%	93.9%	94.9%	95.7%	95.8%	95.9%	96.8%
	LEP	6.7%	6.1%	5.1%	4.3%	4.2%	4.1%	3.2%
Economic Disadvantage	Free Lunch	59.1%	58.9%	58.4%	57.4%	55.7%	54.4%	48.3%
	Reduced-Price Lunch	4.1%	4%	3.9%	4.2%	4.1%	4%	4.3%
	Regular Lunch	36.7%	37.1%	37.7%	38.5%	40.2%	41.6%	47.5%
IEP	Non-IEP	81.8%	83.7%	84.7%	86.6%	88%	88.9%	91.6%
	IEP	18.2%	16.3%	15.3%	13.4%	12%	11.1%	8.4%

¹ Alternate K-PREP students are included, but participation rates for Alternate K-PREP grades 9, 10 and 12 are not provided.

Appendix B. Score Reports

STUDENT REPORT

2019 Grade 5
Kentucky Performance Rating for Educational Progress (K-PREP)

FIRSTNAME I. LASTNAME

School: SCHOOL NAME
District: DISTRICT NAME
State ID: 0000000000

K-PREP Student Scores

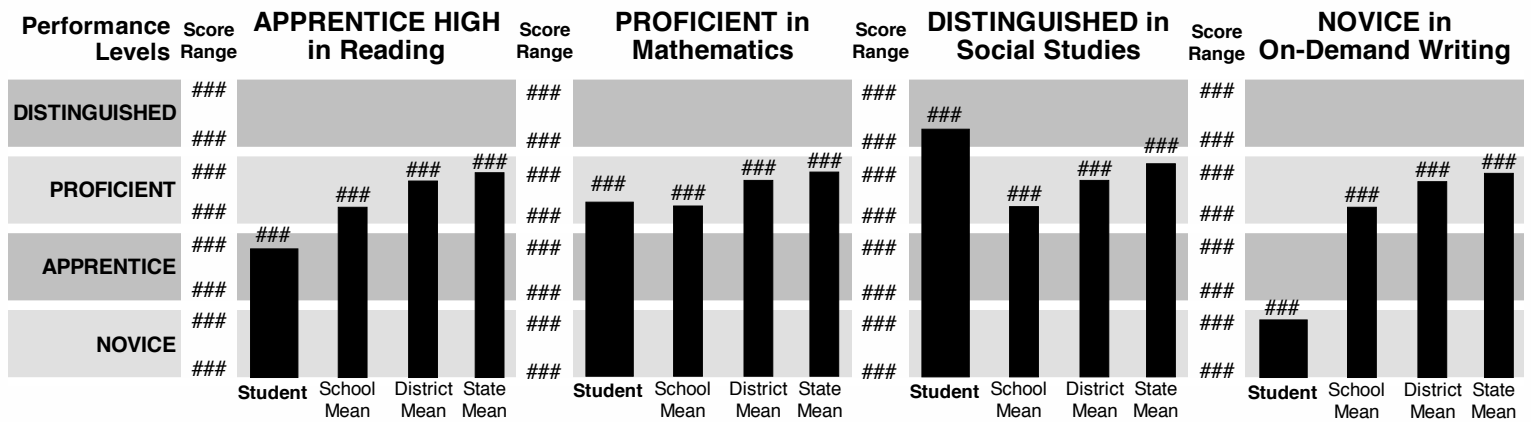


This report provides specific information about your student's performance on the K-PREP test. It also includes information for teachers and parents/guardians about how to support student learning. The K-PREP test is only one indication of how well students do in each subject tested; therefore, it is also important to consider how well students are doing on class work, special projects and assessments.

Students taking the K-PREP test are assessed on the Kentucky Academic Standards. These standards in reading, writing, mathematics and science are rigorous and focus on college and career readiness. Rigorous standards, across all grade levels, help students prepare for what they plan to do after high school. For the future, Kentucky continues to work toward implementation and assessment of new standards for social studies.

Student's Scores and Performance Levels

The chart below shows the student's overall performance in reading, mathematics, social studies and on-demand writing. The performance levels of Novice and Apprentice are broken into two levels HIGH and LOW for reading and mathematics. The first bar for each subject shows the student's score printed above the bar with the performance level listed above the chart and also signified by the height of the bar. The second bar for each subject shows the school average score printed above the bar. The third bar for each subject shows the district average score printed above the bar. Finally, the fourth bar for each subject shows the state average score printed above the bar.



About the Student's Performance Levels

Reading Performance Level: APPRENTICE HIGH

(PLD prints here)

Social Studies Performance Level: DISTINGUISHED

(PLD prints here)

Mathematics Performance Level: PROFICIENT

(PLD prints here)

On-Demand Writing Performance Level: NOVICE

(PLD prints here)

For further information, visit the Kentucky Department of Education online at www.education.ky.gov.

K-PREP Student Results (continued)**Student's Lexile/Quantile Measures****Student's Lexile® measure: #####L**

A student receives a Lexile reader measure as a score from a reading test - it describes his or her reading ability. Books and other texts receive a Lexile text measure from a software tool called the Lexile Analyzer - it describes the book's reading demand or difficulty. Visit www.Lexile.com. On the homepage, click Educators and then click Lexile Book Database where you will be able to search for books by Lexile range, keyword, title, author or ISBN.

Student's Quantile® measure: #####Q

The Quantile Framework uses a Quantile measure to describe a student's mathematical achievement, and the difficulty of specific mathematical skills and concepts. Visit www.Quantiles.com and click on the "Math at Home" section for more information.

For further information,
visit the Kentucky Department of Education online at www.education.ky.gov.



TESTED STUDENTS SCHOOL LISTING

2019 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999999
 School: SCHOOL NAME
 District: DISTRICT NAME

GRADE 5



Student Name Student ID

Student Name	Student ID	Accommodated	Alternate K-PREP1	Reading			Mathematics			Social Studies		On-Demand Writing	
				Performance Level ²	Scale Score ³	Lexile ⁴	Performance Level ²	Scale Score ³	Quantiles	Performance Level ²	Scale Score ³	Performance Level ²	Scale Score ³
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y	Y	P	###		P	###		P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AH	###	#####L	AH	###	#####Q	A	###	A	###
LASTNAME, FIRSTNAME, I.	9999999999			NH	###	#####L	NH	###	#####Q	N	###	N	###
LASTNAME, FIRSTNAME, I.	9999999999			AL	###	#####L	NH	###	#####Q	N	###	A	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y		P	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AH	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			NH	###	#####L	AL	###	#####Q	A	###	A	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	NL	###	#####Q	N	###	N	###
LASTNAME, FIRSTNAME, I.	9999999999			NH	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999			P	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AH	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y		NL	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AL	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999			NL	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999			P	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AH	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999			NH	###	BR###L	NH	###	EM###Q	N	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AL	###	#####L	D	###	#####Q	D	###	D	###

1 Y = Alternate K-PREP student

2 The performance level designations are D = Distinguished, P = Proficient, A = Apprentice, AH = Apprentice High, AL = Apprentice Low, N = Novice, NH = Novice High and NL = Novice Low; "-" = Student did not test

3 Alternate K-PREP reports total score

4 Lexile measure of BR = Beginning Reader

5 Quantile measure of EM = Emerging Mathematician

TESTED STUDENTS SCHOOL LISTING

2019 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999999
 School: SCHOOL NAME
 District: DISTRICT NAME

GRADE 5



Student Name Student ID

Student Name	Student ID	Accommodated	Alternate K-PREP1	Reading			Mathematics			Social Studies		On-Demand Writing	
				Performance Level ²	Scale Score ³	Lexile ⁴	Performance Level ²	Scale Score ³	Quantiles ⁵	Performance Level ²	Scale Score ³	Performance Level ²	Scale Score ³
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y	Y	P	###		P	###		P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AH	###	#####L	AL	###	#####Q	A	###	A	###
LASTNAME, FIRSTNAME, I.	9999999999			NH	###	#####L	NL	###	#####Q	N	###	N	###
LASTNAME, FIRSTNAME, I.	9999999999			-----EXEMPTED-----									
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y		P	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AL	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			NH	###	#####L	AH	###	#####Q	A	###	A	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	NH	###	#####Q	N	###	N	###
LASTNAME, FIRSTNAME, I.	9999999999			NL	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999			P	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AL	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y		NH	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AH	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999			NH	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999			P	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			AH	###	#####L	D	###	#####Q	D	###	D	###

Number of Standard Assessed: ###	Number of Exempted: 1
Number of Alternate Assessed: ###	Total Number of Students: ###

1 Y = Alternate K-PREP student

2 The performance level designations are D = Distinguished, P = Proficient, A = Apprentice, AH = Apprentice High, AL = Apprentice Low, N = Novice, NH = Novice High and NL = Novice Low; "-" = Student did not test

3 Alternate K-PREP reports total score

4 Lexile measure of BR = Beginning Reader

5 Quantile measure of EM = Emerging Mathematician

TESTED STUDENTS SCHOOL SUMMARY

2019 Kentucky Academic Standards Assessment

Code: 999999
 School: SCHOOL NAME
 District: DISTRICT NAME

Grade 4 Science

Percent of Students by Performance Level

Performance Level	Number Students Tested	Percent of Students		
		School	District	State
Novice	#,###	###.#	###.#	###.#
Apprentice	#,###	###.#	###.#	###.#
Proficient	#,###	###.#	###.#	###.#
Distinguished	#,###	###.#	###.#	###.#
Total	#,###			

Performance by Reporting Category

Each content area has been further divided into reporting categories to provide more detail about your school performance. The specific reporting categories have been analyzed for statistical significance to create a status by category. The status is Needs Work or On Track. Remember your formative system needs to supplement how your students are performing on these content areas.

Reporting Category	Status	Status Description
Life Science	Needs Work	On average, your school's students need additional attention on this content skill
Physical Science	On Track	On average, your school's students are performing well on this content skill
Earth and Space Science	On Track	On average, your school's students are performing well on this content skill
Engineering Design	Needs Work	On average, your school's students need additional attention on this content skill



TESTED STUDENTS SCHOOL SUMMARY

2019 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999999
 School: SCHOOL NAME
 District: DISTRICT NAME

Grade 6 Mathematics

Percent of Students by Performance Level

Performance Level	Number Students Tested	Percent of Students		
		School	District	State
Novice Low	#,###	###.#	###.#	###.#
Novice High	#,###	###.#	###.#	###.#
Apprentice Low	#,###	###.#	###.#	###.#
Apprentice High	#,###	###.#	###.#	###.#
Proficient	#,###	###.#	###.#	###.#
Distinguished	#,###	###.#	###.#	###.#
Total	#,###			

Performance by Reporting Category

Each content area has been further divided into reporting categories to provide more detail about your school performance. The specific reporting categories have been analyzed for statistical significance to create a status by category. The status is Needs Work or On Track. Remember your formative system needs to supplement how your students are performing on these content areas.

Reporting Category	Status	Status Description
Ratios and Proportional Relationships	Needs Work	On average, your school's students need additional attention on this content skill.
The Number System	On Track	On average, your school's students are performing well on this content skill.
Expressions and Equations	On Track	On average, your school's students are performing well on this content skill.
Geometry	Needs Work	On average, your school's students need additional attention on this content skill.
Statistics and Probability	On Track	On average, your school's students are performing well on this content skill.



TESTED STUDENTS SCHOOL SUMMARY

2019 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999999

School: SCHOOL NAME

District: DISTRICT NAME

Grade 11 On-Demand Writing

Percent of Students by Performance Level

Performance Level	Number Students Tested	Percent of Students		
		School	District	State
Novice	#,###	###.#	###.#	###.#
Apprentice	#,###	###.#	###.#	###.#
Proficient	#,###	###.#	###.#	###.#
Distinguished	#,###	###.#	###.#	###.#
Total	#,###			



TESTED STUDENTS DISTRICT SUMMARY

2019 Kentucky Academic Standards Assessment

Code: 999

District: DISTRICT NAME

Grade 4 Science



DISTRICT NAME

School Name	Code	Number Students Tested	Scale Score	Performance Level				Reporting Category ¹			
				Novice	Apprentice	Proficient	Distinguished	Life Science	Physical Science	Earth and Space Science	Engineering Design
			Percent of Students				Status				
State		###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT
District		###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	NW
School Name 1	#####	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT
School Name 2	#####	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT
School Name 3	#####	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT
School Name 4	#####	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	NW
School Name 5	#####	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT
School Name 6	#####	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT
School Name 7	#####	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT
School Name 8	#####	###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT
School Name 9	#####	###,###	###	###.#	###.#	###.#	###.#	NW	OT	NW	OT
School Name 10	#####	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT
School Name 11	#####	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT
School Name 12	#####	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT
School Name 13	#####	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT
School Name 14	#####	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT
School Name 15	#####	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT
School Name 16	#####	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT

¹ Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category. Alternate students are included in Performance Level but not in Reporting Category.

2019 Kentucky Performance Rating for Educational Progress (K-PREP)

TESTED STUDENTS DISTRICT SUMMARY

Code: 999

District: DISTRICT NAME

Grade 6 Mathematics



DISTRICT NAME

School Name	Code	Number Students Tested	Scale Score	Performance Level						Reporting Category ¹					
				Novice Low	Novice High	Apprentice Low	Apprentice High	Proficient	Distinguished	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability	
				Percent of Students						Status					
State		###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District		###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	NW
School Name 1	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT
School Name 2	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT
School Name 3	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT
School Name 4	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	NW
School Name 5	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT
School Name 6	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT
School Name 7	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT
School Name 8	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT
School Name 9	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	NW	OT	OT
School Name 10	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
School Name 11	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	NW	OT
School Name 12	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT
School Name 13	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
School Name 14	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT
School Name 15	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT
School Name 16	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT

¹ Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category
Alternate K-PREP students are included in Performance Level but not in Reporting Category.

2019 Kentucky Performance Rating for Educational Progress (K-PREP)

TESTED STUDENTS DISTRICT SUMMARY

Code: 999

District: DISTRICT NAME

Grade 6 Mathematics



DISTRICT NAME

School Name	Code	Number Students Tested	Scale Score	Performance Level						Reporting Category ¹				
				Novice Low	Novice High	Apprentice Low	Apprentice High	Proficient	Distinguished	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
			Number of Students						Status					
State		###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District		###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT
School Name 17	#####	9	****	****	****	****	****	****	****	****	****	****	****	****
School Name 18	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT
School Name 19	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT
School Name 20	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT	NW
School Name 21	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	NW	OT
School Name 22	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
School Name 23	#####	40	###	****	****	****	****	****	****	OT	NW	NW	OT	NW
School Name 24	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
School Name 25	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT
School Name 26	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT
School Name 27	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
School Name 28	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	NW	OT
School Name 29	#####	9	****	****	****	****	****	****	****	****	****	****	****	****
School Name 30	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
School Name 31	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	NW	OT
School Name 32	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	NW	OT

¹ Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category

**** In order to protect student identification required by the Family Educational Rights and Privacy ACT (FERPA), performance results are suppressed for groups with fewer than 10 students or groups that scored at the same performance level. Alternate K-PREP students are included in Performance Level but not in Reporting Category.

TESTED STUDENTS DISTRICT SUMMARY

2019 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999

District: DISTRICT NAME

Grade 6 Reading



DISTRICT NAME

School Name	Code	Number Students Tested	Scale Score	Performance Level						Reporting Category ¹			
				Novice Low	Novice High	Apprentice Low	Apprentice High	Proficient	Distinguished	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
			Percent of Students						Status				
State		###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT
District		###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	NW
School Name 1	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT
School Name 2	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT
School Name 3	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT
School Name 4	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	NW
School Name 5	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT
School Name 6	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT
School Name 7	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT
School Name 8	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT
School Name 9	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	NW	OT
School Name 10	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT
School Name 11	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT
School Name 12	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT
School Name 13	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT
School Name 14	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT
School Name 15	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT
School Name 16	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT

¹ Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category
Alternate K-PREP students are included in Performance Level but not in Reporting Category.

TESTED STUDENTS DISTRICT SUMMARY

2019 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999

District: DISTRICT NAME

Grade 11 On-Demand Writing



DISTRICT NAME

School Name	Code	Number Students Tested	Scale Score	Performance Level			
				Novice	Apprentice	Proficient	Distinguished
				Percent of Students			
State		###,###	###	###.#	###.#	###.#	###.#
District		###,###	###	###.#	###.#	###.#	###.#
School Name 1	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 2	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 3	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 4	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 5	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 6	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 7	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 8	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 9	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 10	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 11	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 12	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 13	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 14	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 15	#####	###,###	###	###.#	###.#	###.#	###.#
School Name 16							

Alternate K-PREP students are included in Performance Level.

TESTED STUDENTS STATE SUMMARY

2019 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999

State: Commonwealth of Kentucky

Grade 6 Mathematics



District Name	Code	Number Students Tested	Scale Score	Performance Level						Reporting Category ¹					
				Novice Low	Novice High	Apprentice Low	Apprentice High	Proficient	Distinguished	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability	
				Percent of Students						Status					
State		###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 1	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT
District Name 2	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 3	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT
District Name 4	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT
District Name 5	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	NW
District Name 6	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 7	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT
District Name 8	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT
District Name 9	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 10	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT
District Name 11	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 12	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT
District Name 13	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT
District Name 14	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 15	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT
District Name 16	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	NW
District Name 17	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 18	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT

¹ Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category
Alternate K-PREP students are included in Performance Level but not in Reporting Category.

TESTED STUDENTS STATE SUMMARY

2019 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999

State: Commonwealth of Kentucky

Grade 6 Mathematics



District Name	Code	Number Students Tested	Scale Score	Performance Level						Reporting Category ¹					
				Novice Low	Novice High	Apprentice Low	Apprentice High	Proficient	Distinguished	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability	
				Percent of Students						Status					
State		###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 19	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 20	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT
District Name 21	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT
District Name 22	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 23	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT
District Name 24	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 25	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 26	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	NW
District Name 27	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT
District Name 28	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 29	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT
District Name 30	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 31	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 32	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT
District Name 33	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	NW	NW	OT	OT
District Name 34	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT
District Name 35	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT
District Name 36	#####	###,###	###	###.#	###.#	###.#	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT

¹ Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category
Alternate K-PREP students are included in Performance Level but not in Reporting Category.

Appendix C. Item Mean Summaries

Operational

Multiple-choice

Subject	Grade	$p < 0.30$	$0.30 \leq p < 0.55$	$0.55 \leq p < 0.75$	$0.75 \leq p < 0.95$	$p \geq 0.95$	Mean p	N
Reading	3	1	8	14	13	--	0.66	36
	4	1	15	12	7	--	0.58	35
	5	--	12	14	9	--	0.62	35
	6	--	14	25	3	--	0.60	42
	7	1	17	17	7	--	0.58	42
	8	2	17	15	8	--	0.59	42
Mathematics	3	1	8	21	14	--	0.65	44
	4	--	15	23	6	--	0.60	44
	5	1	11	24	8	--	0.60	44
	6	1	24	16	3	--	0.53	44
	7	--	25	15	4	--	0.55	44
	8	1	20	20	3	--	0.54	44
Science	4	6	20	14	3	--	0.49	43
	7	10	24	6	--	--	0.39	40
	11	10	34	15	1	--	0.45	60
Social Studies	5	--	6	32	6	--	0.64	44
	8	--	14	27	3	--	0.61	44

Multi-select/Constructed Response²

Subject	Grade	<i>Multi-select/Short Answer</i>				<i>Extended Response</i>			
		N	Mean	Min	Max	N	Mean	Min	Max
Reading	3	2	1.14	1.06	1.22	--	--	--	--
	4	2	0.99	0.77	1.20	1	1.64	1.64	1.64
	5	2	1.08	0.90	1.26	1	1.75	1.75	1.75
	6	2	0.94	0.90	0.98	1	1.50	1.50	1.50
	7	2	1.11	0.97	1.24	1	2.60	2.60	2.60
	8	2	1.23	1.22	1.24	1	1.96	1.96	1.96
Mathematics	3	3	1.04	0.85	1.23	--	--	--	--
	4	3	0.80	0.51	1.04	1	1.61	1.61	1.61
	5	3	0.78	0.63	0.88	1	1.31	1.31	1.31
	6	3	1.00	0.80	1.34	1	1.29	1.29	1.29
	7	3	0.70	0.44	0.96	1	1.39	1.39	1.39
	8	3	0.77	0.39	1.00	1	1.87	1.87	1.87
Science	4	6	1.04	0.71	1.38	7	1.29	0.84	1.86
	7	9	0.96	0.84	1.11	7	1.10	0.66	1.59
	11	10	1.01	0.61	1.25	10	1.15	0.88	1.61
Social Studies	5	--	--	--	--	3	1.55	1.36	1.88
	8	--	--	--	--	3	2.36	2.34	2.40

² Multi-select items in Science are scored 0, 1, and 2.

Appendix D. Item-Total Correlation Summaries

Operational

Multiple-choice

Subject	Grade	$r < 0.20$	$0.20 \leq r < 0.40$	$0.40 \leq r < 0.60$	$0.60 \leq r < 0.80$	$r \geq 0.80$	Median Pt.Bis	N
Reading	3	--	11	25	--	--	0.43	36
	4	1	19	15	--	--	0.39	35
	5	--	16	19	--	--	0.41	35
	6	2	21	19	--	--	0.39	42
	7	1	25	16	--	--	0.39	42
	8	3	18	21	--	--	0.40	42
Mathematics	3	--	9	35	--	--	0.44	44
	4	--	11	33	--	--	0.43	44
	5	1	7	36	--	--	0.45	44
	6	--	18	26	--	--	0.43	44
	7	--	15	29	--	--	0.41	44
	8	--	17	27	--	--	0.42	44
Science	4	6	23	14	--	--	0.35	43
	7	8	21	11	--	--	0.31	40
	11	9	28	23	--	--	0.33	60
Social Studies	5	--	17	27	--	--	0.41	44
	8	--	12	31	1	--	0.44	44

Multi-select/Constructed Response

Subject	Grade	<i>Multi-select/Short Answer</i>				<i>Extended Response</i>			
		N	Median r	Min r	Max r	N	Median r	Min r	Max r
Reading	3	2	0.47	0.41	0.52	--	--	--	--
	4	2	0.49	0.47	0.51	1	0.61	0.61	0.61
	5	2	0.44	0.38	0.49	1	0.47	0.47	0.47
	6	2	0.55	0.52	0.57	1	0.55	0.55	0.55
	7	2	0.48	0.44	0.51	1	0.54	0.54	0.54
	8	2	0.48	0.43	0.53	1	0.56	0.56	0.56
Mathematics	3	3	0.55	0.52	0.57	--	--	--	--
	4	3	0.59	0.48	0.59	1	0.59	0.59	0.59
	5	3	0.53	0.46	0.56	1	0.56	0.56	0.56
	6	3	0.53	0.44	0.61	1	0.64	0.64	0.64
	7	3	0.42	0.40	0.61	1	0.69	0.69	0.69
	8	3	0.54	0.47	0.58	1	0.69	0.69	0.69
Science	4	6	0.37	0.22	0.59	7	0.59	0.53	0.63
	7	9	0.42	0.15	0.52	7	0.65	0.61	0.68
	11	10	0.37	0.20	0.55	10	0.69	0.59	0.75
Social Studies	5	--	--	--	--	3	0.54	0.48	0.57
	8	--	--	--	--	3	0.46	0.43	0.55

Appendix E. Differential Item Functioning Summaries

Operational

Reading

Grade	Subgroups	DIF Categories					
		Negligible DIF		Moderate DIF		Substantial DIF	
		Focal	Reference	Focal	Reference	Focal	Reference
3	Male-Female	17	21	--	--	--	--
	White-Black	22	15	--	1	--	--
	White-Hispanic	20	15	1	1	--	1
4	Male-Female	20	16	1	--	--	1
	White-Black	21	17	--	--	--	--
	White-Hispanic	19	18	--	1	--	--
5	Male-Female	17	19	1	--	--	1
	White-Black	19	19	--	--	--	--
	White-Hispanic	18	19	--	1	--	--
6	Male-Female	21	18	1	5	--	--
	White-Black	21	24	--	--	--	--
	White-Hispanic	27	18	--	--	--	--
7	Male-Female	18	21	2	3	1	--
	White-Black	21	24	--	--	--	--
	White-Hispanic	21	23	--	1	--	--
8	Male-Female	19	23	--	--	2	1
	White-Black	23	22	--	--	--	--
	White-Hispanic	22	23	--	--	--	--

Note: 'Focal' indicates DIF in favor of Female, Black, or Hispanic students; 'Reference' indicates DIF in favor of Male or White students.

Mathematics

Grade	Subgroups	DIF Categories					
		Negligible DIF		Moderate DIF		Substantial DIF	
		Focal	Reference	Focal	Reference	Focal	Reference
3	Male-Female	27	19	1	--	--	--
	White-Black	23	24	--	--	--	--
	White-Hispanic	24	23	--	--	--	--
4	Male-Female	22	25	--	1	--	--
	White-Black	24	24	--	--	--	--
	White-Hispanic	29	19	--	--	--	--
5	Male-Female	27	21	--	--	--	--
	White-Black	28	20	--	--	--	--
	White-Hispanic	28	20	--	--	--	--
6	Male-Female	20	27	--	1	--	--
	White-Black	25	23	--	--	--	--
	White-Hispanic	25	23	--	--	--	--
7	Male-Female	26	20	--	2	--	--
	White-Black	26	22	--	--	--	--
	White-Hispanic	27	21	--	--	--	--
8	Male-Female	20	26	1	1	--	--
	White-Black	28	20	--	--	--	--
	White-Hispanic	25	23	--	--	--	--

Note: 'Focal' indicates DIF in favor of Female, Black, or Hispanic students; 'Reference' indicates DIF in favor of Male or White students.

Science

Grade	Subgroups	DIF Categories					
		Negligible DIF		Moderate DIF		Substantial DIF	
		Focal	Reference	Focal	Reference	Focal	Reference
4	Male-Female	23	33	--	--	--	--
	White-Black	28	27	--	--	--	1
	White-Hispanic	27	29	--	--	--	--
7	Male-Female	16	39	1	--	--	--
	White-Black	27	29	--	--	--	--
	White-Hispanic	31	25	--	--	--	--
11	Male-Female	28	45	2	3	1	1
	White-Black	47	32	--	1	--	--
	White-Hispanic	41	39	--	--	--	--

Note: 'Focal' indicates DIF in favor of Female, Black, or Hispanic students; 'Reference' indicates DIF in favor of Male or White students.

Social Studies

Grade	Subgroups	DIF Categories					
		Negligible DIF		Moderate DIF		Substantial DIF	
		Focal	Reference	Focal	Reference	Focal	Reference
5	Male-Female	21	26	--	--	--	--
	White-Black	27	20	--	--	--	--
	White-Hispanic	24	22	--	1	--	--
8	Male-Female	17	23	1	4	2	--
	White-Black	24	23	--	--	--	--
	White-Hispanic	20	27	--	--	--	--

Note: 'Focal' indicates DIF in favor of Female, Black, or Hispanic students; 'Reference' indicates DIF in favor of Male or White students.

Appendix F. Item Response Theory Parameter Summary

Operational

			Item Difficulty					Infit				Outfit			
Subject	Grade	No. of Items	Min.	P25	Median	P75	Max.	<0.5	0.5<=Infit<1.5	1.5<=Infit<2.0	>2.0	<0.5	0.5<=Outfit<1.5	1.5<=Outfit<2.0	>2.0
Science	11	80	-1.5945	-0.5515	0.0153	0.5416	1.6457	-	80	-	-	-	78	2	-

Appendix G. Raw Score to Scale Score Tables

Grade 3 Reading

Raw Score	Scale Score	Conditional SEM
0	100	34
1	131	17
2	143	12
3	150	10
4	156	9
5	160	8
6	164	8
7	167	7
8	170	7
9	173	7
10	175	6
11	178	6
12	180	6
13	182	6
14	184	6
15	187	6
16	189	6
17	190	6
18	192	6
19	194	6
20	196	6
21	198	6
22	200	6
23	202	6
24	204	6
25	206	6
26	208	6
27	210	6
28	213	6

Raw Score	Scale Score	Conditional SEM
29	215	6
30	217	6
31	220	7
32	223	7
33	226	7
34	229	8
35	233	8
36	238	9
37	243	10
38	251	12
39	263	17
40	287	34

Grade 3 Reading-Braille

Raw Score	Scale Score	Conditional SEM
0	100	34
1	131	17
2	143	12
3	151	10
4	156	9
5	161	8
6	164	8
7	168	7
8	171	7
9	173	7
10	176	6
11	178	6

Raw Score	Scale Score	Conditional SEM
12	181	6
13	183	6
14	185	6
15	187	6
16	189	6
17	191	6
18	193	6
19	195	6
20	198	6
21	200	6
22	202	6
23	204	6
24	206	6
25	208	6
26	210	6
27	213	6
28	215	7
29	218	7
30	221	7
31	224	7
32	227	8
33	231	8
34	236	9
35	242	10
36	249	12
37	262	17
38	286	34

Grade 4 Reading

Raw Score	Scale Score	Conditional SEM
0	100	34
1	137	17
2	149	12
3	157	10
4	163	9
5	167	8
6	171	8
7	175	7
8	178	7
9	180	7
10	183	6
11	185	6
12	188	6
13	190	6
14	192	6
15	194	6
16	196	6
17	198	6
18	200	5
19	201	5
20	203	5
21	205	5
22	207	5
23	208	5
24	210	5
25	212	5
26	214	5
27	215	5
28	217	6
29	219	6
30	221	6

Raw Score	Scale Score	Conditional SEM
31	223	6
32	225	6
33	227	6
34	230	6
35	232	7
36	235	7
37	238	7
38	242	8
39	246	9
40	251	10
41	258	12
42	270	17
43	294	33

Grade 4 Reading-Braille

Raw Score	Scale Score	Conditional SEM
0	100	34
1	137	17
2	150	12
3	157	10
4	163	9
5	167	8
6	171	8
7	175	7
8	178	7
9	181	7
10	183	6
11	186	6
12	188	6
13	190	6
14	192	6

Raw Score	Scale Score	Conditional SEM
15	194	6
16	196	6
17	198	6
18	200	6
19	202	5
20	204	5
21	205	5
22	207	5
23	209	5
24	211	5
25	213	5
26	214	6
27	216	6
28	218	6
29	220	6
30	222	6
31	224	6
32	226	6
33	229	6
34	231	7
35	234	7
36	237	7
37	241	8
38	245	9
39	250	10
40	258	12
41	270	17
42	293	33

Grade 5 Reading

Raw Score	Scale Score	Conditional SEM
0	100	34

Raw Score	Scale Score	Conditional SEM
1	134	17
2	146	12
3	154	10
4	160	9
5	164	8
6	168	8
7	172	7
8	175	7
9	178	7
10	180	7
11	183	6
12	185	6
13	187	6
14	189	6
15	191	6
16	193	6
17	195	6
18	197	6
19	199	6
20	201	6
21	203	6
22	205	6
23	207	6
24	208	6
25	210	6
26	212	6
27	214	6
28	216	6
29	218	6
30	220	6
31	222	6
32	225	6
33	227	6

Raw Score	Scale Score	Conditional SEM
34	230	7
35	232	7
36	235	7
37	239	8
38	242	8
39	247	9
40	252	10
41	259	12
42	271	17
43	294	33

Grade 6 Reading

Raw Score	Scale Score	Conditional SEM
0	100	33
1	139	17
2	151	12
3	159	10
4	164	9
5	168	8
6	172	7
7	175	7
8	178	7
9	180	6
10	182	6
11	185	6
12	187	6
13	188	6
14	190	5
15	192	5
16	194	5
17	195	5
18	197	5

Raw Score	Scale Score	Conditional SEM
19	198	5
20	200	5
21	201	5
22	203	5
23	204	5
24	206	5
25	207	5
26	209	5
27	210	5
28	212	5
29	213	5
30	214	5
31	216	5
32	217	5
33	219	5
34	220	5
35	222	5
36	224	5
37	226	5
38	227	6
39	229	6
40	231	6
41	233	6
42	236	6
43	238	7
44	241	7
45	245	8
46	249	9
47	254	10
48	261	12
49	273	17
50	296	33

**Grade 6 Reading–
Braille**

Raw Score	Scale Score	Conditional SEM
0	100	33
1	140	17
2	152	12
3	159	10
4	164	9
5	168	8
6	172	7
7	175	7
8	178	7
9	180	6
10	183	6
11	185	6
12	187	6
13	189	6
14	191	5
15	192	5
16	194	5
17	196	5
18	197	5
19	199	5
20	200	5
21	202	5
22	203	5
23	205	5
24	206	5
25	208	5
26	209	5
27	211	5
28	212	5
29	214	5
30	215	5

Raw Score	Scale Score	Conditional SEM
31	217	5
32	218	5
33	220	5
34	222	5
35	223	5
36	225	5
37	227	6
38	229	6
39	231	6
40	233	6
41	235	6
42	238	7
43	241	7
44	244	8
45	248	9
46	253	10
47	260	12
48	272	17
49	296	33

Grade 7 Reading

Raw Score	Scale Score	Conditional SEM
0	100	33
1	135	17
2	147	12
3	154	10
4	160	9
5	164	8
6	167	8
7	171	7
8	174	7

Raw Score	Scale Score	Conditional SEM
9	176	6
10	178	6
11	181	6
12	183	6
13	185	6
14	187	6
15	188	5
16	190	5
17	192	5
18	193	5
19	195	5
20	197	5
21	198	5
22	200	5
23	201	5
24	203	5
25	204	5
26	206	5
27	207	5
28	209	5
29	211	5
30	212	5
31	214	5
32	215	5
33	217	5
34	219	5
35	221	6
36	223	6
37	225	6
38	227	6
39	229	6
40	231	6
41	234	7

Raw Score	Scale Score	Conditional SEM
42	236	7
43	239	7
44	242	8
45	246	8
46	251	9
47	256	10
48	264	12
49	276	17
50	300	34

**Grade 7 Reading-
Braille**

Raw Score	Scale Score	Conditional SEM
0	100	34
1	135	17
2	147	12
3	154	10
4	160	9
5	164	8
6	168	8
7	171	7
8	174	7
9	176	6
10	179	6
11	181	6
12	183	6
13	185	6
14	187	6
15	189	5
16	190	5
17	192	5
18	194	5

Raw Score	Scale Score	Conditional SEM
19	195	5
20	197	5
21	199	5
22	200	5
23	202	5
24	203	5
25	205	5
26	206	5
27	208	5
28	210	5
29	211	5
30	213	5
31	215	5
32	216	5
33	218	5
34	220	6
35	222	6
36	224	6
37	226	6
38	228	6
39	230	6
40	233	7
41	236	7
42	238	7
43	242	8
44	246	8
45	250	9
46	256	10
47	263	12
48	276	17
49	299	34

Grade 8 Reading

Raw Score	Scale Score	Conditional SEM
0	100	34
1	136	17
2	148	12
3	155	10
4	161	9
5	165	8
6	169	8
7	172	7
8	175	7
9	178	7
10	180	6
11	183	6
12	185	6
13	187	6
14	189	6
15	191	6
16	193	5
17	194	5
18	196	5
19	198	5
20	199	5
21	201	5
22	202	5
23	204	5
24	205	5
25	207	5
26	209	5
27	210	5
28	212	5
29	213	5
30	215	5

Raw Score	Scale Score	Conditional SEM
31	216	5
32	218	5
33	220	5
34	221	5
35	223	5
36	225	6
37	227	6
38	229	6
39	231	6
40	233	6
41	236	6
42	238	7
43	241	7
44	244	8
45	248	8
46	252	9
47	258	10
48	265	12
49	277	17
50	300	33

Grade 3 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	33
1	126	17
2	138	12
3	145	10
4	151	9
5	155	8
6	159	8
7	162	7
8	165	7

Raw Score	Scale Score	Conditional SEM
9	167	6
10	170	6
11	172	6
12	174	6
13	176	6
14	178	6
15	180	6
16	182	5
17	184	5
18	185	5
19	187	5
20	189	5
21	190	5
22	192	5
23	193	5
24	195	5
25	196	5
26	198	5
27	199	5
28	201	5
29	203	5
30	204	5
31	206	5
32	207	5
33	209	5
34	211	5
35	213	5
36	214	6
37	216	6
38	218	6
39	221	6
40	223	6
41	225	7

Raw Score	Scale Score	Conditional SEM
42	228	7
43	231	7
44	235	8
45	238	8
46	243	9
47	249	11
48	258	13
49	271	18
50	296	34

Grade 4 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	34
1	130	17
2	142	12
3	150	10
4	155	9
5	160	8
6	163	8
7	167	7
8	170	7
9	172	7
10	175	6
11	177	6
12	179	6
13	181	6
14	183	6
15	185	6
16	187	5
17	189	5
18	190	5
19	192	5

Raw Score	Scale Score	Conditional SEM
20	193	5
21	195	5
22	197	5
23	198	5
24	200	5
25	201	5
26	203	5
27	204	5
28	206	5
29	207	5
30	209	5
31	210	5
32	212	5
33	213	5
34	215	5
35	216	5
36	218	5
37	219	5
38	221	5
39	222	5
40	224	5
41	226	5
42	227	5
43	229	6
44	231	6
45	233	6
46	235	6
47	238	7
48	241	7
49	244	8
50	248	9
51	253	10
52	260	12

Raw Score	Scale Score	Conditional SEM
53	272	17
54	295	33

Grade 5 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	33
1	131	17
2	144	12
3	151	10
4	156	9
5	161	8
6	164	8
7	168	7
8	171	7
9	173	6
10	176	6
11	178	6
12	180	6
13	182	6
14	184	6
15	186	6
16	188	5
17	189	5
18	191	5
19	193	5
20	194	5
21	196	5
22	198	5
23	199	5
24	201	5
25	202	5

Raw Score	Scale Score	Conditional SEM
26	204	5
27	205	5
28	207	5
29	208	5
30	210	5
31	212	5
32	213	5
33	215	5
34	216	5
35	218	5
36	220	5
37	221	5
38	223	5
39	225	6
40	227	6
41	229	6
42	231	6
43	233	6
44	235	6
45	237	6
46	240	7
47	243	7
48	246	7
49	250	8
50	254	9
51	259	10
52	266	12
53	278	17
54	300	33

**Grade 5 Mathematics-
Braille**

Raw Score	Scale Score	Conditional SEM
0	100	33
1	131	17
2	144	12
3	151	10
4	156	9
5	161	8
6	165	8
7	168	7
8	171	7
9	173	6
10	176	6
11	178	6
12	180	6
13	182	6
14	184	6
15	186	6
16	188	5
17	190	5
18	191	5
19	193	5
20	195	5
21	196	5
22	198	5
23	199	5
24	201	5
25	203	5
26	204	5
27	206	5
28	207	5
29	209	5
30	210	5

Raw Score	Scale Score	Conditional SEM
31	212	5
32	214	5
33	215	5
34	217	5
35	219	5
36	220	5
37	222	5
38	224	6
39	226	6
40	228	6
41	230	6
42	232	6
43	234	6
44	236	6
45	239	7
46	242	7
47	245	7
48	248	8
49	253	9
50	258	10
51	265	12
52	277	17
53	300	33

Grade 6 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	33
1	137	17
2	149	12
3	156	10
4	162	9
5	166	8

Raw Score	Scale Score	Conditional SEM
6	170	8
7	173	7
8	176	7
9	178	6
10	181	6
11	183	6
12	185	6
13	187	6
14	189	5
15	191	5
16	192	5
17	194	5
18	195	5
19	197	5
20	199	5
21	200	5
22	202	5
23	203	5
24	204	5
25	206	5
26	207	5
27	209	5
28	210	5
29	211	5
30	213	5
31	214	5
32	216	5
33	217	5
34	219	5
35	220	5
36	222	5
37	223	5
38	225	5

Raw Score	Scale Score	Conditional SEM
39	226	5
40	228	5
41	230	5
42	232	6
43	234	6
44	236	6
45	238	6
46	240	7
47	243	7
48	246	7
49	250	8
50	254	9
51	259	10
52	267	12
53	279	17
54	300	33

Grade 7 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	33
1	137	17
2	149	12
3	157	10
4	162	9
5	167	8
6	170	8
7	173	7
8	176	7
9	179	6
10	181	6
11	183	6
12	185	6

Raw Score	Scale Score	Conditional SEM
13	187	6
14	189	6
15	191	5
16	193	5
17	194	5
18	196	5
19	198	5
20	199	5
21	201	5
22	202	5
23	203	5
24	205	5
25	206	5
26	208	5
27	209	5
28	210	5
29	212	5
30	213	5
31	214	5
32	216	5
33	217	5
34	219	5
35	220	5
36	221	5
37	223	5
38	225	5
39	226	5
40	228	5
41	230	6
42	231	6
43	233	6
44	236	6
45	238	6

Raw Score	Scale Score	Conditional SEM
46	240	7
47	243	7
48	246	7
49	250	8
50	254	9
51	259	10
52	267	12
53	279	17
54	300	34

Grade 8 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	33
1	136	17
2	148	12
3	156	10
4	161	9
5	165	8
6	169	8
7	172	7
8	175	7
9	177	6
10	180	6
11	182	6
12	184	6
13	186	6
14	188	5
15	190	5
16	191	5
17	193	5
18	195	5

Raw Score	Scale Score	Conditional SEM
19	196	5
20	198	5
21	199	5
22	200	5
23	202	5
24	203	5
25	205	5
26	206	5
27	207	5
28	209	5
29	210	5
30	211	5
31	213	5
32	214	5
33	216	5
34	217	5
35	218	5
36	220	5
37	221	5
38	223	5
39	225	5
40	226	5
41	228	5
42	230	6
43	232	6
44	234	6
45	236	6
46	238	6
47	241	7
48	244	7
49	247	8
50	251	9
51	256	10

Raw Score	Scale Score	Conditional SEM
52	263	12
53	275	17
54	298	33

Grade 4 Science

Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM
01	0	100	34	01	32	221	6	02	15	197	5
01	1	134	17	01	33	222	6	02	16	199	5
01	2	147	12	01	34	224	6	02	17	201	5
01	3	154	10	01	35	226	6	02	18	202	5
01	4	160	9	01	36	228	6	02	19	204	5
01	5	164	8	01	37	231	6	02	20	205	5
01	6	168	8	01	38	233	6	02	21	207	5
01	7	171	7	01	39	235	6	02	22	209	5
01	8	174	7	01	40	238	7	02	23	210	5
01	9	177	7	01	41	241	7	02	24	212	5
01	10	180	6	01	42	244	7	02	25	213	5
01	11	182	6	01	43	247	8	02	26	215	5
01	12	184	6	01	44	251	9	02	27	216	5
01	13	187	6	01	45	257	10	02	28	218	5
01	14	189	6	01	46	264	12	02	29	219	5
01	15	191	6	01	47	275	17	02	30	221	5
01	16	192	6	01	48	299	33	02	31	223	5
01	17	194	6	02	0	100	34	02	32	224	5
01	18	196	5	02	1	143	17	02	33	226	5
01	19	198	5	02	2	155	12	02	34	228	6
01	20	200	5	02	3	163	10	02	35	230	6
01	21	201	5	02	4	168	9	02	36	232	6
01	22	203	5	02	5	172	8	02	37	234	6
01	23	205	5	02	6	176	8	02	38	236	6
01	24	207	5	02	7	179	7	02	39	238	7
01	25	208	5	02	8	182	7	02	40	241	7
01	26	210	5	02	9	185	6	02	41	244	7
01	27	212	5	02	10	187	6	02	42	248	8
01	28	213	5	02	11	189	6	02	43	252	9
01	29	215	5	02	12	192	6	02	44	257	10
01	30	217	5	02	13	194	6	02	45	265	12
01	31	219	5	02	14	195	6	02	46	277	17

Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM
02	47	300	34	03	32	221	6	04	16	199	5
03	0	100	34	03	33	222	6	04	17	201	5
03	1	134	17	03	34	224	6	04	18	202	5
03	2	147	12	03	35	226	6	04	19	204	5
03	3	154	10	03	36	228	6	04	20	205	5
03	4	160	9	03	37	231	6	04	21	207	5
03	5	164	8	03	38	233	6	04	22	209	5
03	6	168	8	03	39	235	6	04	23	210	5
03	7	171	7	03	40	238	7	04	24	212	5
03	8	174	7	03	41	241	7	04	25	213	5
03	9	177	7	03	42	244	7	04	26	215	5
03	10	180	6	03	43	247	8	04	27	216	5
03	11	182	6	03	44	251	9	04	28	218	5
03	12	184	6	03	45	257	10	04	29	219	5
03	13	187	6	03	46	264	12	04	30	221	5
03	14	189	6	03	47	275	17	04	31	223	5
03	15	191	6	03	48	299	33	04	32	224	5
03	16	192	6	04	0	100	34	04	33	226	5
03	17	194	6	04	1	143	17	04	34	228	6
03	18	196	5	04	2	155	12	04	35	230	6
03	19	198	5	04	3	163	10	04	36	232	6
03	20	200	5	04	4	168	9	04	37	234	6
03	21	201	5	04	5	172	8	04	38	236	6
03	22	203	5	04	6	176	8	04	39	238	7
03	23	205	5	04	7	179	7	04	40	241	7
03	24	207	5	04	8	182	7	04	41	244	7
03	25	208	5	04	9	185	6	04	42	248	8
03	26	210	5	04	10	187	6	04	43	252	9
03	27	212	5	04	11	189	6	04	44	257	10
03	28	213	5	04	12	192	6	04	45	265	12
03	29	215	5	04	13	194	6	04	46	277	17
03	30	217	5	04	14	195	6	04	47	300	34
03	31	219	5	04	15	197	5				

Grade 7 Science

Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM
01	0	100	34	01	32	226	5	02	15	195	5
01	1	143	17	01	33	227	5	02	16	197	5
01	2	155	12	01	34	229	5	02	17	199	5
01	3	162	10	01	35	231	6	02	18	200	5
01	4	168	9	01	36	233	6	02	19	202	5
01	5	172	8	01	37	235	6	02	20	204	5
01	6	176	8	01	38	237	6	02	21	205	5
01	7	179	7	01	39	239	6	02	22	207	5
01	8	182	7	01	40	241	7	02	23	208	5
01	9	185	7	01	41	244	7	02	24	210	5
01	10	188	6	01	42	247	7	02	25	211	5
01	11	190	6	01	43	251	8	02	26	213	5
01	12	192	6	01	44	255	9	02	27	214	5
01	13	194	6	01	45	260	10	02	28	216	5
01	14	196	6	01	46	267	12	02	29	217	5
01	15	198	6	01	47	280	17	02	30	218	5
01	16	200	5	01	48	300	33	02	31	220	5
01	17	202	5	02	0	100	34	02	32	221	5
01	18	203	5	02	1	141	17	02	33	223	5
01	19	205	5	02	2	153	12	02	34	225	5
01	20	207	5	02	3	161	10	02	35	226	5
01	21	208	5	02	4	166	9	02	36	228	5
01	22	210	5	02	5	171	8	02	37	230	5
01	23	212	5	02	6	174	8	02	38	231	6
01	24	213	5	02	7	178	7	02	39	233	6
01	25	215	5	02	8	180	7	02	40	235	6
01	26	216	5	02	9	183	6	02	41	237	6
01	27	218	5	02	10	185	6	02	42	240	6
01	28	219	5	02	11	188	6	02	43	242	7
01	29	221	5	02	12	190	6	02	44	245	7
01	30	222	5	02	13	192	6	02	45	248	7
01	31	224	5	02	14	194	6	02	46	251	8

Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM
02	47	255	9	03	28	219	5	04	12	190	6
02	48	261	10	03	29	221	5	04	13	192	6
02	49	268	12	03	30	222	5	04	14	194	6
02	50	280	17	03	31	224	5	04	15	195	5
02	51	300	33	03	32	226	5	04	16	197	5
03	0	100	34	03	33	227	5	04	17	199	5
03	1	143	17	03	34	229	5	04	18	200	5
03	2	155	12	03	35	231	6	04	19	202	5
03	3	162	10	03	36	233	6	04	20	204	5
03	4	168	9	03	37	235	6	04	21	205	5
03	5	172	8	03	38	237	6	04	22	207	5
03	6	176	8	03	39	239	6	04	23	208	5
03	7	179	7	03	40	241	7	04	24	210	5
03	8	182	7	03	41	244	7	04	25	211	5
03	9	185	7	03	42	247	7	04	26	213	5
03	10	188	6	03	43	251	8	04	27	214	5
03	11	190	6	03	44	255	9	04	28	216	5
03	12	192	6	03	45	260	10	04	29	217	5
03	13	194	6	03	46	267	12	04	30	218	5
03	14	196	6	03	47	280	17	04	31	220	5
03	15	198	6	03	48	300	33	04	32	221	5
03	16	200	5	04	0	100	34	04	33	223	5
03	17	202	5	04	1	141	17	04	34	225	5
03	18	203	5	04	2	153	12	04	35	226	5
03	19	205	5	04	3	161	10	04	36	228	5
03	20	207	5	04	4	166	9	04	37	230	5
03	21	208	5	04	5	171	8	04	38	231	6
03	22	210	5	04	6	174	8	04	39	233	6
03	23	212	5	04	7	178	7	04	40	235	6
03	24	213	5	04	8	180	7	04	41	237	6
03	25	215	5	04	9	183	6	04	42	240	6
03	26	216	5	04	10	185	6	04	43	242	7
03	27	218	5	04	11	188	6	04	44	245	7

Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM
04	45	248	7	04	48	261	10	04	51	300	33
04	46	251	8	04	49	268	12				
04	47	255	9	04	50	280	17				

Grade 11 Science

Form	Raw Score	Scale Score	Conditional SEM
01	0	100	34
01	1	138	17
01	2	151	13
01	3	159	11
01	4	165	9
01	5	170	8
01	6	174	8
01	7	177	7
01	8	180	7
01	9	183	7
01	10	185	6
01	11	188	6
01	12	190	6
01	13	192	6
01	14	194	6
01	15	196	6
01	16	198	6
01	17	200	5
01	18	202	5
01	19	203	5
01	20	205	5
01	21	207	5
01	22	208	5
01	23	210	5
01	24	212	5
01	25	213	5
01	26	215	5
01	27	217	5
01	28	218	5
01	29	220	5
01	30	222	5
01	31	223	5

Form	Raw Score	Scale Score	Conditional SEM
01	32	225	5
01	33	227	6
01	34	229	6
01	35	231	6
01	36	233	6
01	37	235	6
01	38	237	6
01	39	239	6
01	40	242	7
01	41	245	7
01	42	248	7
01	43	251	8
01	44	255	9
01	45	261	10
01	46	268	12
01	47	280	17
01	48	300	33
02	0	100	34
02	1	136	17
02	2	149	12
02	3	157	10
02	4	162	9
02	5	167	8
02	6	171	8
02	7	174	7
02	8	177	7
02	9	180	7
02	10	183	6
02	11	185	6
02	12	187	6
02	13	189	6
02	14	191	6

Form	Raw Score	Scale Score	Conditional SEM
02	15	193	6
02	16	195	6
02	17	197	5
02	18	199	5
02	19	201	5
02	20	202	5
02	21	204	5
02	22	206	5
02	23	207	5
02	24	209	5
02	25	211	5
02	26	212	5
02	27	214	5
02	28	216	5
02	29	217	5
02	30	219	5
02	31	221	5
02	32	222	5
02	33	224	6
02	34	226	6
02	35	228	6
02	36	230	6
02	37	232	6
02	38	234	6
02	39	237	6
02	40	239	7
02	41	242	7
02	42	245	7
02	43	249	8
02	44	253	9
02	45	258	10
02	46	265	12

Form	Raw Score	Scale Score	Conditional SEM
02	47	277	17
02	48	300	33
03	0	100	34
03	1	135	17
03	2	148	13
03	3	156	10
03	4	162	9
03	5	166	8
03	6	170	8
03	7	174	7
03	8	177	7
03	9	180	7
03	10	183	7
03	11	185	6
03	12	188	6
03	13	190	6
03	14	192	6
03	15	194	6
03	16	196	6
03	17	198	6
03	18	200	6
03	19	202	5
03	20	203	5
03	21	205	5
03	22	207	5
03	23	209	5
03	24	210	5
03	25	212	5
03	26	214	5
03	27	215	5
03	28	217	5
03	29	219	5
03	30	221	5
03	31	222	5

Form	Raw Score	Scale Score	Conditional SEM
03	32	224	6
03	33	226	6
03	34	228	6
03	35	230	6
03	36	232	6
03	37	234	6
03	38	236	6
03	39	239	6
03	40	241	7
03	41	244	7
03	42	247	7
03	43	251	8
03	44	255	9
03	45	260	10
03	46	267	12
03	47	279	17
03	48	300	33
04	0	100	34
04	1	137	17
04	2	149	12
04	3	157	10
04	4	163	9
04	5	167	8
04	6	171	8
04	7	175	7
04	8	178	7
04	9	180	7
04	10	183	6
04	11	185	6
04	12	187	6
04	13	189	6
04	14	191	6
04	15	193	6
04	16	195	5

Form	Raw Score	Scale Score	Conditional SEM
04	17	197	5
04	18	199	5
04	19	200	5
04	20	202	5
04	21	203	5
04	22	205	5
04	23	207	5
04	24	208	5
04	25	210	5
04	26	211	5
04	27	213	5
04	28	215	5
04	29	216	5
04	30	218	5
04	31	220	5
04	32	221	5
04	33	223	5
04	34	225	6
04	35	227	6
04	36	229	6
04	37	231	6
04	38	233	6
04	39	235	6
04	40	238	7
04	41	241	7
04	42	244	7
04	43	247	8
04	44	251	9
04	45	256	10
04	46	263	12
04	47	275	17
04	48	298	33

Grade 5 Social Studies

Raw Score	Scale Score	Conditional SEM
0	100	33
1	134	17
2	146	12
3	153	10
4	158	9
5	162	8
6	165	7
7	168	7
8	171	6
9	174	6
10	176	6
11	178	6
12	180	6
13	181	5
14	183	5
15	185	5
16	186	5
17	188	5
18	189	5
19	191	5
20	192	5
21	194	5
22	195	5
23	196	5
24	198	5
25	199	5
26	200	5
27	202	5
28	203	5
29	205	5
30	206	5

Raw Score	Scale Score	Conditional SEM
31	207	5
32	209	5
33	210	5
34	211	5
35	213	5
36	214	5
37	216	5
38	218	5
39	219	5
40	221	5
41	223	6
42	225	6
43	227	6
44	229	6
45	231	6
46	234	6
47	236	7
48	239	7
49	242	8
50	246	8
51	250	9
52	255	10
53	261	11
54	269	13
55	283	18
56	300	34

Grade 8 Social Studies

Raw Score	Scale Score	Conditional SEM
0	100	33
1	136	17
2	148	12

Raw Score	Scale Score	Conditional SEM
3	154	10
4	159	8
5	163	8
6	166	7
7	169	7
8	172	6
9	174	6
10	176	6
11	178	6
12	180	5
13	181	5
14	183	5
15	185	5
16	186	5
17	188	5
18	189	5
19	191	5
20	192	5
21	194	5
22	195	5
23	197	5
24	198	5
25	200	5
26	201	5
27	202	5
28	204	5
29	205	5
30	207	5
31	208	5
32	210	5
33	211	5
34	212	5
35	214	5

Raw Score	Scale Score	Conditional SEM
36	216	5
37	217	5
38	219	5
39	220	5
40	222	5
41	224	5
42	226	6
43	228	6

Raw Score	Scale Score	Conditional SEM
44	230	6
45	232	6
46	234	6
47	236	6
48	239	7
49	242	7
50	245	8
51	249	8

Raw Score	Scale Score	Conditional SEM
52	253	9
53	259	10
54	266	12
55	278	17
56	300	33

Grade 5 On Demand Writing

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
01	0	100	19
01	1	126	14
01	2	156	20
01	3	185	13
01	4	212	19
01	5	238	13
01	6	264	18
01	7	288	12
01	8	300	18
02	0	100	19
02	1	120	18
02	2	156	20
02	3	185	13
02	4	215	22
02	5	242	12
02	6	267	20
02	7	293	12
02	8	300	18

Grade 8 On Demand Writing

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
01	0	100	18
01	1	118	12
01	2	151	30
01	3	185	12
01	4	206	15
01	5	226	12
01	6	247	15
01	7	268	12
01	8	285	18
02	0	100	18
02	1	112	13
02	2	151	36
02	3	187	12
02	4	208	15
02	5	228	12
02	6	250	16
02	7	271	12
02	8	287	18

Grade 11 On Demand Writing

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
01	0	100	18
01	1	154	12
01	2	177	16
01	3	200	12
01	4	220	14
01	5	240	12
01	6	260	14
01	7	280	12
01	8	296	18
02	0	100	19
02	1	146	15
02	2	169	13
02	3	192	15
02	4	213	12
02	5	234	14
02	6	256	13
02	7	276	13
02	8	294	18

Appendix H. Raw Score to Scale Score Tables— Subdomain

Grade 3 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.1836	100	34
	1	-2.6613	154	18
	2	-1.7661	169	14
	3	-1.1269	180	13
	4	-0.5597	189	12
	5	0.0142	199	13
	6	0.6736	210	14
	7	1.6029	225	18
	8	3.1592	251	34
Craft and Structure	0	-3.9837	100	34
	1	-2.4783	157	18
	2	-1.6210	171	14
	3	-1.0429	181	12
	4	-0.5703	189	11
	5	-0.1448	196	11
	6	0.2654	203	11
	7	0.6862	210	11
	8	1.1492	218	12
	9	1.7133	227	13
	10	2.5520	241	18
	11	4.0407	266	34
Integration of Ideas	0	-3.7984	100	34
	1	-2.3164	160	18
	2	-1.4858	174	13
	3	-0.9294	183	12
	4	-0.4737	191	11
	5	-0.0606	197	11
	6	0.3414	204	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	7	0.7579	211	11
	8	1.2205	219	12
	9	1.7877	228	14
	10	2.6332	242	18
	11	4.1293	267	34
Vocabulary and Acquisition	0	-4.2694	100	34
	1	-2.7686	152	18
	2	-1.9065	167	14
	3	-1.3090	177	12
	4	-0.7995	185	12
	5	-0.3149	193	12
	6	0.1842	202	12
	7	0.7375	211	13
	8	1.4091	222	15
	9	2.3756	238	19
	10	3.9713	265	34

Grade 3 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.1836	100	34
	1	-2.6613	154	18
	2	-1.7661	169	14
	3	-1.1269	180	13
	4	-0.5597	189	12
	5	0.0142	199	13
	6	0.6736	210	14
	7	1.6029	225	18
	8	3.1592	251	34
Craft and Structure	0	-3.9837	100	34
	1	-2.4783	157	18
	2	-1.6210	171	14

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM	
	3	-1.0429	181	12	
	4	-0.5703	189	11	
	5	-0.1448	196	11	
	6	0.2654	203	11	
	7	0.6862	210	11	
	8	1.1492	218	12	
	9	1.7133	227	13	
	10	2.5520	241	18	
	11	4.0407	266	34	
	Integration of Ideas	0	-3.7049	100	34
		1	-2.2061	162	18
2		-1.3470	176	14	
3		-0.7525	186	12	
4		-0.2442	194	12	
5		0.2448	203	12	
6		0.7635	211	12	
7		1.3799	221	14	
8		2.2739	236	18	
9		3.8086	262	34	
Vocabulary and Acquisition	0	-4.2694	100	34	
	1	-2.7686	152	18	
	2	-1.9065	167	14	
	3	-1.3090	177	12	
	4	-0.7995	185	12	
	5	-0.3149	193	12	
	6	0.1842	202	12	
	7	0.7375	211	13	
	8	1.4091	222	15	
	9	2.3756	238	19	
	10	3.9713	265	34	

Grade 4 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-3.4637	100	34
	1	-1.9723	165	18
	2	-1.1388	178	13
	3	-0.5900	188	12
	4	-0.1526	195	11
	5	0.2307	201	10
	6	0.5888	207	10
	7	0.9418	213	10
	8	1.3099	219	10
	9	1.7216	226	11
	10	2.2331	235	13
	11	3.0166	248	17
	12	4.4614	272	34
Craft and Structure	0	-3.3245	100	34
	1	-1.7720	168	18
	2	-0.8358	183	14
	3	-0.1592	195	13
	4	0.4364	205	13
	5	1.0257	214	13
	6	1.6847	225	14
	7	2.5965	241	18
	8	4.1289	266	34
Integration of Ideas	0	-3.0270	100	34
	1	-1.5454	172	18
	2	-0.7382	185	13
	3	-0.2308	194	11
	4	0.1558	200	10
	5	0.4856	205	9
	6	0.7916	211	9
	7	1.0940	216	9
	8	1.4078	221	9

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	9	1.7478	227	10
	10	2.1377	233	11
	11	2.6316	241	13
	12	3.4022	254	17
	13	4.8434	278	34
Vocabulary and Acquisition	0	-4.2769	100	34
	1	-2.7541	151	18
	2	-1.8678	166	14
	3	-1.2541	176	12
	4	-0.7386	185	12
	5	-0.2604	193	11
	6	0.2173	201	12
	7	0.7318	210	12
	8	1.3445	220	14
	9	2.2311	235	18
	10	3.7559	260	34

Grade 4 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-3.4637	100	34
	1	-1.9723	165	18
	2	-1.1388	178	13
	3	-0.5900	188	12
	4	-0.1526	195	11
	5	0.2307	201	10
	6	0.5888	207	10
	7	0.9418	213	10
	8	1.3099	219	10
	9	1.7216	226	11
	10	2.2331	235	13
	11	3.0166	248	17

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	12	4.4614	272	34
Craft and Structure	0	-3.3245	100	34
	1	-1.7720	168	18
	2	-0.8358	183	14
	3	-0.1592	195	13
	4	0.4364	205	13
	5	1.0257	214	13
	6	1.6847	225	14
	7	2.5965	241	18
	8	4.1289	266	34
Integration of Ideas	0	-2.9701	100	34
	1	-1.4800	173	18
	2	-0.6638	186	13
	3	-0.1490	195	11
	4	0.2465	202	10
	5	0.5896	207	10
	6	0.9155	213	10
	7	1.2465	218	10
	8	1.6010	224	10
	9	2.0030	231	11
	10	2.5057	239	13
	11	3.2815	252	17
	12	4.7251	276	34
Vocabulary and Acquisition	0	-4.2769	100	34
	1	-2.7541	151	18
	2	-1.8678	166	14
	3	-1.2541	176	12
	4	-0.7386	185	12
	5	-0.2604	193	11
	6	0.2173	201	12
	7	0.7318	210	12
	8	1.3445	220	14

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	9	2.2311	235	18
	10	3.7559	260	34

Grade 5 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.4849	100	34
	1	-2.9639	150	18
	2	-2.0791	164	14
	3	-1.4644	175	12
	4	-0.9436	183	12
	5	-0.4549	191	12
	6	0.0383	200	12
	7	0.5717	209	13
	8	1.2039	219	14
	9	2.1065	234	18
	10	3.6387	260	34
Craft and Structure	0	-3.7428	100	34
	1	-2.2055	162	18
	2	-1.2969	177	14
	3	-0.6599	188	13
	4	-0.1231	197	12
	5	0.3718	205	12
	6	0.8592	213	12
	7	1.3750	222	12
	8	1.9801	232	14
	9	2.8498	247	18
	10	4.3559	272	34
Integration of Ideas	0	-3.2473	100	34
	1	-1.7998	169	17
	2	-1.0236	182	13
	3	-0.5287	190	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	4	-0.1394	197	10
	5	0.2037	202	10
	6	0.5307	208	10
	7	0.8614	213	10
	8	1.2113	219	10
	9	1.5942	226	11
	10	2.0276	233	11
	11	2.5507	242	13
	12	3.3133	254	17
	13	4.6985	277	33
Vocabulary and Acquisition	0	-3.8542	100	34
	1	-2.2870	161	19
	2	-1.3565	176	14
	3	-0.7150	187	13
	4	-0.1844	196	12
	5	0.2998	204	11
	6	0.7771	212	12
	7	1.2863	221	12
	8	1.8897	231	14
	9	2.7631	245	18
	10	4.2753	270	34

Grade 6 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-3.3686	100	34
	1	-1.8909	165	18
	2	-1.0647	179	13
	3	-0.5103	188	12
	4	-0.0531	196	11
	5	0.3678	203	11
	6	0.7886	210	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	7	1.2457	218	12
	8	1.8000	227	13
	9	2.6260	241	18
	10	4.1036	265	34
Craft and Structure	0	-3.5989	100	34
	1	-2.1177	162	18
	2	-1.2955	175	13
	3	-0.7572	184	11
	4	-0.3319	191	10
	5	0.0361	197	10
	6	0.3737	203	10
	7	0.6988	209	9
	8	1.0269	214	10
	9	1.3760	220	10
	10	1.7741	226	11
	11	2.2778	235	13
	12	3.0598	248	17
	13	4.5083	272	34
Integration of Ideas	0	-3.3850	100	34
	1	-1.9289	165	17
	2	-1.1410	178	13
	3	-0.6387	186	11
	4	-0.2516	193	10
	5	0.0742	198	9
	6	0.3632	203	9
	7	0.6292	207	8
	8	0.8813	212	8
	9	1.1260	216	8
	10	1.3693	220	8
	11	1.6178	224	8
	12	1.8800	228	9
	13	2.1692	233	9
	14	2.5101	239	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	15	2.9572	246	12
	16	3.6834	258	17
	17	5.0916	282	33
Vocabulary and Acquisition	0	-3.4457	100	34
	1	-1.9609	164	18
	2	-1.1263	178	13
	3	-0.5642	187	12
	4	-0.0995	195	11
	5	0.3291	202	11
	6	0.7585	210	11
	7	1.2256	217	12
	8	1.7918	227	13
	9	2.6327	241	18
	10	4.1238	266	34

Grade 6 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-3.3686	100	34
	1	-1.8909	165	18
	2	-1.0647	179	13
	3	-0.5103	188	12
	4	-0.0531	196	11
	5	0.3678	203	11
	6	0.7886	210	11
	7	1.2457	218	12
	8	1.8000	227	13
	9	2.6260	241	18
	10	4.1036	265	34
Craft and Structure	0	-3.5989	100	34
	1	-2.1177	162	18
	2	-1.2955	175	13
	3	-0.7572	184	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	4	-0.3319	191	10
	5	0.0361	197	10
	6	0.3737	203	10
	7	0.6988	209	9
	8	1.0269	214	10
	9	1.3760	220	10
	10	1.7741	226	11
	11	2.2778	235	13
	12	3.0598	248	17
	13	4.5083	272	34
Integration of Ideas	0	-3.3299	100	34
	1	-1.8681	166	17
	2	-1.0723	179	13
	3	-0.5617	188	11
	4	-0.1660	194	10
	5	0.1689	200	9
	6	0.4677	205	9
	7	0.7444	209	9
	8	1.0085	214	9
	9	1.2673	218	8
	10	1.5282	222	9
	11	1.8001	227	9
	12	2.0966	232	9
	13	2.4425	238	10
	14	2.8924	245	12
	15	3.6193	257	17
16	5.0273	281	33	
Vocabulary and Acquisition	0	-3.4457	100	34
	1	-1.9609	164	18
	2	-1.1263	178	13
	3	-0.5642	187	12
	4	-0.0995	195	11
	5	0.3291	202	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	0.7585	210	11
	7	1.2256	217	12
	8	1.7918	227	13
	9	2.6327	241	18
	10	4.1238	266	34

Grade 7 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.2042	100	34
	1	-2.6890	155	18
	2	-1.8228	169	14
	3	-1.2409	179	12
	4	-0.7700	187	11
	5	-0.3526	194	11
	6	0.0405	200	10
	7	0.4305	207	10
	8	0.8381	213	11
	9	1.2927	221	12
	10	1.8516	230	13
	11	2.6880	244	18
	12	4.1765	269	34
Craft and Structure	0	-4.1254	100	34
	1	-2.6395	156	18
	2	-1.8048	169	13
	3	-1.2466	179	12
	4	-0.7933	186	11
	5	-0.3895	193	10
	6	-0.0078	199	10
	7	0.3699	206	10
	8	0.7600	212	11
	9	1.1827	219	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	10	1.6703	227	12
	11	2.2881	238	14
	12	3.2225	253	19
	13	4.8159	280	35
Integration of Ideas	0	-3.5184	100	34
	1	-2.0783	165	17
	2	-1.3153	178	13
	3	-0.8319	186	11
	4	-0.4503	192	10
	5	-0.1123	198	10
	6	0.2092	203	9
	7	0.5292	208	9
	8	0.8580	214	10
	9	1.2051	220	10
	10	1.5841	226	11
	11	2.0195	233	12
	12	2.5655	242	13
	13	3.3931	256	18
	14	4.8767	281	34
Vocabulary and Acquisition	0	-3.5673	100	34
	1	-2.0881	165	18
	2	-1.2604	179	13
	3	-0.7059	188	12
	4	-0.2514	195	11
	5	0.1612	202	11
	6	0.5632	209	11
	7	0.9797	216	11
	8	1.4414	224	12
	9	2.0061	233	13
	10	2.8463	247	18
	11	4.3360	272	34

Grade 7 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.2042	100	34
	1	-2.6890	155	18
	2	-1.8228	169	14
	3	-1.2409	179	12
	4	-0.7700	187	11
	5	-0.3526	194	11
	6	0.0405	200	10
	7	0.4305	207	10
	8	0.8381	213	11
	9	1.2927	221	12
	10	1.8516	230	13
	11	2.6880	244	18
	12	4.1765	269	34
Craft and Structure	0	-4.1254	100	34
	1	-2.6395	156	18
	2	-1.8048	169	13
	3	-1.2466	179	12
	4	-0.7933	186	11
	5	-0.3895	193	10
	6	-0.0078	199	10
	7	0.3699	206	10
	8	0.7600	212	11
	9	1.1827	219	11
	10	1.6703	227	12
	11	2.2881	238	14
	12	3.2225	253	19
	13	4.8159	280	35
Integration of Ideas	0	-3.4736	100	34
	1	-2.0303	166	17
	2	-1.2626	178	13
	3	-0.7722	187	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	4	-0.3802	193	10
	5	-0.0269	199	10
	6	0.3158	205	10
	7	0.6644	211	10
	8	1.0309	217	10
	9	1.4293	223	11
	10	1.8837	231	12
	11	2.4480	240	13
	12	3.2929	254	18
	13	4.7887	279	34
Vocabulary and Acquisition	0	-3.5673	100	34
	1	-2.0881	165	18
	2	-1.2604	179	13
	3	-0.7059	188	12
	4	-0.2514	195	11
	5	0.1612	202	11
	6	0.5632	209	11
	7	0.9797	216	11
	8	1.4414	224	12
	9	2.0061	233	13
	10	2.8463	247	18
	11	4.3360	272	34

Grade 8 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.0579	100	34
	1	-2.5803	157	18
	2	-1.7592	170	13
	3	-1.2171	179	11
	4	-0.7821	187	11
	5	-0.3983	193	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	-0.0385	199	10
	7	0.3149	205	10
	8	0.6770	211	10
	9	1.0650	217	11
	10	1.5057	225	12
	11	2.0542	234	13
	12	2.8815	248	18
	13	4.3632	272	34
Craft and Structure	0	-4.3337	100	34
	1	-2.8203	153	18
	2	-1.9444	167	14
	3	-1.3417	177	12
	4	-0.8435	186	11
	5	-0.3970	193	11
	6	0.0248	200	11
	7	0.4433	207	11
	8	0.8825	214	11
	9	1.3755	223	12
	10	1.9827	233	14
	11	2.8775	248	18
	12	4.4144	273	34
Integration of Ideas	0	-2.7262	100	34
	1	-1.2991	178	17
	2	-0.5428	191	13
	3	-0.0560	199	11
	4	0.3367	205	10
	5	0.6928	211	10
	6	1.0399	217	10
	7	1.3957	223	10
	8	1.7770	229	11
	9	2.2094	236	11
	10	2.7468	245	13
	11	3.5602	259	18

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	12	5.0296	283	34
Vocabulary and Acquisition	0	-3.6084	100	34
	1	-2.1402	164	18
	2	-1.3315	177	13
	3	-0.8020	186	11
	4	-0.3801	193	10
	5	-0.0104	199	10
	6	0.3342	205	10
	7	0.6711	211	10
	8	1.0157	217	10
	9	1.3855	223	10
	10	1.8078	230	11
	11	2.3387	239	13
	12	3.1501	252	18
	13	4.6214	277	34

Grade 3 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-4.2228	100	34
	1	-2.7506	148	18
	2	-1.9329	161	13
	3	-1.3889	170	12
	4	-0.9454	178	11
	5	-0.5444	184	10
	6	-0.1555	191	10
	7	0.2441	197	11
	8	0.6780	205	11
	9	1.1782	213	12
	10	1.8033	223	14
	11	2.7226	239	18
	12	4.2778	265	34

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Number and Operations in Base Ten	0	-3.9168	100	34
	1	-2.4427	153	18
	2	-1.6270	166	13
	3	-1.0910	175	11
	4	-0.6625	182	11
	5	-0.2847	189	10
	6	0.0713	195	10
	7	0.4263	200	10
	8	0.8014	207	10
	9	1.2263	214	11
	10	1.7588	223	13
	11	2.5727	236	18
	12	4.0477	261	34
Number and Operations - Fractions	0	-4.4151	100	34
	1	-2.9161	145	18
	2	-2.0611	159	14
	3	-1.4791	169	12
	4	-0.9990	177	11
	5	-0.5652	184	11
	6	-0.1506	191	11
	7	0.2633	198	11
	8	0.6948	205	11
	9	1.1682	213	12
	10	1.7253	222	13
	11	2.4568	234	16
	12	3.6067	254	21
	13	5.4256	284	36
Measurement and Data/Geometry	0	-3.4287	100	34
	1	-1.9389	161	18
	2	-1.1154	175	13
	3	-0.5863	184	11
	4	-0.1786	190	10
	5	0.1654	196	9

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	0.4752	201	9
	7	0.7713	206	9
	8	1.0717	211	9
	9	1.3969	217	10
	10	1.7769	223	11
	11	2.2699	231	13
	12	3.0494	244	17
	13	4.5008	268	34

Grade 4 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-4.0531	100	34
	1	-2.5414	159	18
	2	-1.6727	174	14
	3	-1.0802	184	12
	4	-0.5929	192	11
	5	-0.1584	199	11
	6	0.2426	206	10
	7	0.6149	212	10
	8	0.9613	218	10
	9	1.2942	223	10
	10	1.6429	229	10
	11	2.0687	236	12
	12	2.7551	248	17
Number and Operations in Base Ten	13	4.1403	271	33
	0	-4.5839	100	34
	1	-3.0210	151	19
	2	-2.0877	167	14
	3	-1.4422	178	13
	4	-0.9143	186	12
	5	-0.4451	194	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	-0.0036	202	11
	7	0.4292	209	11
	8	0.8665	216	11
	9	1.3245	224	12
	10	1.8467	232	13
	11	2.5911	245	17
	12	3.9579	268	33
Number and Operations - Fractions	0	-4.2928	100	34
	1	-2.8143	155	18
	2	-1.9926	168	13
	3	-1.4512	177	11
	4	-1.0183	185	11
	5	-0.6377	191	10
	6	-0.2823	197	10
	7	0.0659	203	10
	8	0.4225	209	10
	9	0.8051	215	11
	10	1.2411	222	12
	11	1.7860	231	13
	12	2.6116	245	18
	13	4.0931	270	34
Measurement and Data/Geometry	0	-4.2336	100	34
	1	-2.7487	156	18
	2	-1.9281	169	13
	3	-1.3974	178	11
	4	-0.9845	185	10
	5	-0.6338	191	10
	6	-0.3195	196	9
	7	-0.0268	201	9
	8	0.2548	206	9
	9	0.5334	211	9
	10	0.8175	215	9
	11	1.1171	220	9

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	12	1.4466	226	10
	13	1.8313	232	11
	14	2.3255	240	13
	15	3.1002	253	17
	16	4.5435	277	34

Grade 5 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-4.2895	100	34
	1	-2.7840	156	18
	2	-1.9212	170	14
	3	-1.3321	180	12
	4	-0.8447	188	11
	5	-0.4029	195	11
	6	0.0208	202	11
	7	0.4449	209	11
	8	0.8877	217	11
	9	1.3761	225	12
	10	1.9653	235	14
	11	2.8265	249	18
	12	4.3295	274	34
Number and Operations in Base Ten	0	-3.9929	100	34
	1	-2.5341	160	17
	2	-1.7380	173	13
	3	-1.2211	182	11
	4	-0.8118	189	10
	5	-0.4547	194	10
	6	-0.1229	200	10
	7	0.2010	205	10
	8	0.5318	211	10
	9	0.8867	217	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	10	1.2925	224	11
	11	1.8044	232	13
	12	2.5938	245	17
	13	4.0461	270	34
Number and Operations - Fractions	0	-3.7836	100	34
	1	-2.2362	165	18
	2	-1.3290	180	14
	3	-0.7079	190	12
	4	-0.1979	199	12
	5	0.2594	206	11
	6	0.6914	214	11
	7	1.1124	221	11
	8	1.5285	228	11
	9	1.9462	235	11
	10	2.3861	242	11
	11	2.9061	251	13
	12	3.6922	264	17
	13	5.1567	288	34
Measurement and Data/Geometry	0	-4.6716	100	34
	1	-3.1939	149	18
	2	-2.3727	163	13
	3	-1.8315	172	11
	4	-1.3997	179	11
	5	-1.0233	185	10
	6	-0.6776	191	10
	7	-0.3492	196	9
	8	-0.0294	202	9
	9	0.2879	207	9
	10	0.6085	212	9
	11	0.9395	218	10
	12	1.2931	224	10
	13	1.6930	230	11
	14	2.1937	239	13

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	15	2.9679	252	17
	16	4.4088	276	34

Grade 5 Mathematics-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-4.2895	100	34
	1	-2.7840	156	18
	2	-1.9212	170	14
	3	-1.3321	180	12
	4	-0.8447	188	11
	5	-0.4029	195	11
	6	0.0208	202	11
	7	0.4449	209	11
	8	0.8877	217	11
	9	1.3761	225	12
	10	1.9653	235	14
	11	2.8265	249	18
	12	4.3295	274	34
Number and Operations in Base Ten	0	-3.9929	100	34
	1	-2.5341	160	17
	2	-1.7380	173	13
	3	-1.2211	182	11
	4	-0.8118	189	10
	5	-0.4547	194	10
	6	-0.1229	200	10
	7	0.2010	205	10
	8	0.5318	211	10
	9	0.8867	217	10
	10	1.2925	224	11
	11	1.8044	232	13
	12	2.5938	245	17

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	13	4.0461	270	34
Number and Operations - Fractions	0	-3.7677	100	34
	1	-2.2148	165	18
	2	-1.2985	180	14
	3	-0.6650	191	13
	4	-0.1383	200	12
	5	0.3422	208	11
	6	0.8057	216	11
	7	1.2664	223	11
	8	1.7288	231	11
	9	2.2048	239	12
	10	2.7462	248	13
	11	3.5391	261	17
	12	5.0072	286	34
Measurement and Data/Geometry	0	-4.6716	100	34
	1	-3.1939	149	18
	2	-2.3727	163	13
	3	-1.8315	172	11
	4	-1.3997	179	11
	5	-1.0233	185	10
	6	-0.6776	191	10
	7	-0.3492	196	9
	8	-0.0294	202	9
	9	0.2879	207	9
	10	0.6085	212	9
	11	0.9395	218	10
	12	1.2931	224	10
	13	1.6930	230	11
	14	2.1937	239	13
	15	2.9679	252	17
16	4.4088	276	34	

Grade 6 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Ratios and Proportional Relationships	0	-4.1215	100	34
	1	-2.5854	159	18
	2	-1.6884	174	14
	3	-1.0730	184	12
	4	-0.5663	193	11
	5	-0.1101	200	11
	6	0.3273	208	11
	7	0.7716	215	11
	8	1.2546	223	12
	9	1.8349	233	14
	10	2.6860	247	18
	11	4.1815	272	34
The Number System	0	-3.6653	100	34
	1	-2.1559	166	18
	2	-1.2920	181	14
	3	-0.7060	190	12
	4	-0.2263	198	11
	5	0.2023	205	11
	6	0.6065	212	11
	7	1.0063	219	11
	8	1.4286	226	11
	9	1.9276	234	13
	10	2.6715	247	17
	11	4.0632	270	33
Expressions and Equations	0	-3.2316	100	34
	1	-1.7494	173	18
	2	-0.9216	187	13
	3	-0.3713	196	12
	4	0.0749	203	11
	5	0.4753	210	10
	6	0.8614	216	10
	7	1.2588	223	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	8	1.6987	230	12
	9	2.2395	239	13
	10	3.0545	253	18
	11	4.5248	278	34
Geometry	0	-3.4436	100	34
	1	-1.9670	169	18
	2	-1.1433	183	13
	3	-0.5932	192	12
	4	-0.1437	200	11
	5	0.2636	206	11
	6	0.6600	213	11
	7	1.0707	220	11
	8	1.5270	228	12
	9	2.0873	237	13
	10	2.9246	251	18
	11	4.4136	276	34
Statistics and Probability	0	-3.7379	100	34
	1	-2.2207	165	18
	2	-1.3411	180	14
	3	-0.7323	190	12
	4	-0.2188	198	12
	5	0.2619	206	12
	6	0.7497	215	12
	7	1.2874	224	13
	8	1.9474	235	15
	9	2.9222	251	19
	10	4.5458	278	35

Grade 7 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Ratios and Proportional Relationships	0	-3.5741	100	34
	1	-2.0724	172	18
	2	-1.2282	186	13
	3	-0.6715	195	12
	4	-0.2244	203	11
	5	0.1782	209	10
	6	0.5769	216	11
	7	1.0124	223	11
	8	1.5494	232	13
	9	2.3659	246	18
	10	3.8425	270	34
The Number System	0	-3.7286	100	34
	1	-2.1635	170	19
	2	-1.2437	186	14
	3	-0.6217	196	12
	4	-0.1219	204	11
	5	0.3145	212	11
	6	0.7179	218	10
	7	1.1122	225	11
	8	1.5280	232	11
	9	2.0237	240	13
	10	2.7730	253	17
	11	4.1819	276	33
Expressions and Equations	0	-3.7796	100	34
	1	-2.2494	169	18
	2	-1.3645	184	14
	3	-0.7779	193	12
	4	-0.3228	201	11
	5	0.0646	207	10
	6	0.4286	213	10
	7	0.8096	220	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	8	1.2568	227	12
	9	1.8482	237	14
	10	2.7714	252	19
	11	4.3590	279	34
Geometry	0	-3.7178	100	34
	1	-2.2313	169	18
	2	-1.3945	183	13
	3	-0.8312	192	12
	4	-0.3674	200	11
	5	0.0560	207	11
	6	0.4720	214	11
	7	0.9084	221	11
	8	1.4003	230	12
	9	2.0121	240	14
	10	2.9247	255	18
	11	4.4889	281	34
Statistics and Probability	0	-4.4745	100	34
	1	-2.9780	157	18
	2	-2.1286	171	14
	3	-1.5547	180	12
	4	-1.0832	188	11
	5	-0.6564	195	11
	6	-0.2435	202	11
	7	0.1805	209	11
	8	0.6465	217	12
	9	1.2125	227	13
	10	2.0516	240	18
	11	3.5392	265	34

Grade 8 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
The Number System/Expressions and Equations	0	-4.0465	100	34
	1	-2.5909	160	17
	2	-1.8027	173	13
	3	-1.2991	181	11
	4	-0.9096	188	10
	5	-0.5803	193	9
	6	-0.2860	198	9
	7	-0.0122	203	9
	8	0.2515	207	9
	9	0.5142	211	9
	10	0.7848	216	9
	11	1.0740	221	9
	12	1.3971	226	10
	13	1.7797	233	11
	14	2.2765	241	13
	15	3.0582	254	17
	16	4.5093	278	34
Functions	0	-3.7309	100	34
	1	-2.2198	166	18
	2	-1.3636	180	14
	3	-0.7977	190	12
	4	-0.3502	197	11
	5	0.0353	203	10
	6	0.3882	209	10
	7	0.7307	215	10
	8	1.0861	221	10
	9	1.4871	228	11
	10	1.9951	236	13
	11	2.7882	249	17
	12	4.2517	274	34
Geometry	0	-4.1736	100	34

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	1	-2.6918	158	18
	2	-1.8746	172	13
	3	-1.3478	180	11
	4	-0.9401	187	10
	5	-0.5960	193	9
	6	-0.2890	198	9
	7	-0.0030	203	9
	8	0.2741	207	9
	9	0.5532	212	9
	10	0.8464	217	9
	11	1.1696	222	10
	12	1.5494	229	11
	13	2.0409	237	13
	14	2.8158	250	17
	15	4.2612	274	34
	0	-4.0542	100	34
	1	-2.5220	161	18
	2	-1.6132	176	14
	3	-0.9649	187	13
	4	-0.4052	196	12
	5	0.1171	205	12
	6	0.6180	213	12
	7	1.1027	221	12
	8	1.5866	229	12
	9	2.1217	238	13
	10	2.8794	251	17
	11	4.2705	274	33
Statistics and Probability				

Grade 4 Science

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
01	Life Science	0	-4.6114	100	34
		1	-3.0727	154	18
		2	-2.1752	169	14
		3	-1.5629	179	12
		4	-1.0642	188	11
		5	-0.6237	195	11
		6	-0.2156	202	11
		7	0.1750	208	10
		8	0.5592	215	10
		9	0.9498	221	11
		10	1.3705	228	11
		11	1.8747	237	13
		12	2.6331	249	17
		13	4.0473	273	33
	Physical Science	0	-4.4105	100	34
		1	-2.9273	157	18
		2	-2.1013	170	13
		3	-1.5580	179	11
		4	-1.1255	187	11
		5	-0.7482	193	10
		6	-0.3993	199	10
		7	-0.0625	204	10
		8	0.2747	210	10
		9	0.6228	216	10
		10	0.9916	222	10
		11	1.3904	229	11
		12	1.8315	236	11
		13	2.3505	245	13
		14	3.0949	257	17
	15	4.4542	280	33	
	Earth and Space Science	0	-4.6037	100	34

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		1	-3.1301	153	18
		2	-2.3216	167	13
		3	-1.7992	175	11
		4	-1.3911	182	10
		5	-1.0425	188	10
		6	-0.7288	193	9
		7	-0.4361	198	9
		8	-0.1553	203	9
		9	0.1213	207	9
		10	0.4010	212	9
		11	0.6918	217	9
		12	1.0040	222	10
		13	1.3521	228	10
		14	1.7613	235	11
		15	2.2862	243	13
		16	3.0987	257	18
		17	4.5763	282	34
	Engineering Design	0	-1.7148	100	35
		1	0.0296	206	21
		2	1.4822	230	21
		3	3.2445	259	35
02	Life Science	0	-3.9014	100	34
		1	-2.3393	166	19
		2	-1.3767	182	15
		3	-0.6577	194	14
		4	-0.0137	205	13
		5	0.6042	215	13
		6	1.2284	226	13
		7	1.9200	237	15
		8	2.8585	253	18
		9	4.4077	279	34
			Physical Science	0	-4.0890
1	-2.6259			162	18

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		2	-1.8264	175	13
		3	-1.3091	184	11
		4	-0.9027	190	10
		5	-0.5529	196	10
		6	-0.2350	201	9
		7	0.0640	206	9
		8	0.3509	211	9
		9	0.6281	216	9
		10	0.8969	220	9
		11	1.1614	225	9
		12	1.4333	229	9
		13	1.7377	234	10
		14	2.1316	241	12
		15	2.7957	252	16
		16	4.1684	275	33
		Earth and Space Science	0	-4.0219	100
	1		-2.5760	162	17
	2		-1.8065	175	13
	3		-1.3280	183	11
	4		-0.9690	189	9
	5		-0.6739	194	9
	6		-0.4162	198	8
	7		-0.1805	202	8
	8		0.0440	206	8
	9		0.2652	210	8
	10		0.4901	214	8
	11		0.7255	217	8
	12		0.9787	222	9
	13		1.2589	226	9
	14		1.5800	232	10
	15		1.9664	238	11
	16		2.4718	247	13
	17		3.2668	260	18

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		18	4.7313	284	34
	Engineering Design	0	-1.6428	100	32
		1	-0.3365	200	17
		2	0.5520	215	16
		3	1.6413	233	20
		4	3.4377	263	36
03	Life Science	0	-4.6114	100	34
		1	-3.0727	154	18
		2	-2.1752	169	14
		3	-1.5629	179	12
		4	-1.0642	188	11
		5	-0.6237	195	11
		6	-0.2156	202	11
		7	0.1750	208	10
		8	0.5592	215	10
		9	0.9498	221	11
		10	1.3705	228	11
		11	1.8747	237	13
		12	2.6331	249	17
	13	4.0473	273	33	
	Physical Science	0	-4.4105	100	34
		1	-2.9273	157	18
		2	-2.1013	170	13
		3	-1.5580	179	11
		4	-1.1255	187	11
		5	-0.7482	193	10
		6	-0.3993	199	10
		7	-0.0625	204	10
		8	0.2747	210	10
		9	0.6228	216	10
10		0.9916	222	10	
11	1.3904	229	11		
12	1.8315	236	11		

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		13	2.3505	245	13
		14	3.0949	257	17
		15	4.4542	280	33
	Earth and Space Science	0	-4.6037	100	34
		1	-3.1301	153	18
		2	-2.3216	167	13
		3	-1.7992	175	11
		4	-1.3911	182	10
		5	-1.0425	188	10
		6	-0.7288	193	9
		7	-0.4361	198	9
		8	-0.1553	203	9
		9	0.1213	207	9
		10	0.4010	212	9
		11	0.6918	217	9
		12	1.0040	222	10
		13	1.3521	228	10
		14	1.7613	235	11
		15	2.2862	243	13
		16	3.0987	257	18
17	4.5763	282	34		
	Engineering Design	0	-1.7148	100	35
		1	0.0296	206	21
		2	1.4822	230	21
		3	3.2445	259	35
04	Life Science	0	-3.9014	100	34
		1	-2.3393	166	19
		2	-1.3767	182	15
		3	-0.6577	194	14
		4	-0.0137	205	13
		5	0.6042	215	13
		6	1.2284	226	13
		7	1.9200	237	15

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		8	2.8585	253	18
		9	4.4077	279	34
	Physical Science	0	-4.0890	100	34
		1	-2.6259	162	18
		2	-1.8264	175	13
		3	-1.3091	184	11
		4	-0.9027	190	10
		5	-0.5529	196	10
		6	-0.2350	201	9
		7	0.0640	206	9
		8	0.3509	211	9
		9	0.6281	216	9
		10	0.8969	220	9
		11	1.1614	225	9
		12	1.4333	229	9
		13	1.7377	234	10
		14	2.1316	241	12
		15	2.7957	252	16
	16	4.1684	275	33	
	Earth and Space Science	0	-4.0219	100	34
		1	-2.5760	162	17
		2	-1.8065	175	13
		3	-1.3280	183	11
		4	-0.9690	189	9
		5	-0.6739	194	9
		6	-0.4162	198	8
		7	-0.1805	202	8
		8	0.0440	206	8
		9	0.2652	210	8
		10	0.4901	214	8
		11	0.7255	217	8
		12	0.9787	222	9
		13	1.2589	226	9

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		14	1.5800	232	10
		15	1.9664	238	11
		16	2.4718	247	13
		17	3.2668	260	18
		18	4.7313	284	34
	Engineering Design	0	-1.6428	100	32
		1	-0.3365	200	17
		2	0.5520	215	16
		3	1.6413	233	20
		4	3.4377	263	36

Grade 7 Science

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
01	Life Science	0	-4.1102	100	34
		1	-2.5687	167	18
		2	-1.6733	182	14
		3	-1.0742	192	12
		4	-0.6022	200	11
		5	-0.2025	207	10
		6	0.1522	213	10
		7	0.4811	218	9
		8	0.8021	224	9
		9	1.1369	229	10
		10	1.5169	236	11
		11	2.0033	244	13
		12	2.7734	256	17
	13	4.2189	281	34	
	Physical Science	0	-4.3157	100	34
		1	-2.8392	163	18
		2	-2.0275	176	13
		3	-1.5047	185	11
		4	-1.1001	192	10

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM	
		5	-0.7596	198	9	
		6	-0.4585	203	9	
		7	-0.1831	207	9	
		8	0.0755	211	8	
		9	0.3240	216	8	
		10	0.5684	220	8	
		11	0.8149	224	8	
		12	1.0708	228	9	
		13	1.3458	233	9	
		14	1.6548	238	10	
		15	2.0238	244	11	
		16	2.5081	252	13	
		17	3.2797	265	17	
		18	4.7258	289	34	
		Earth and Space Science	0	-3.6902	100	34
			1	-2.1891	174	18
			2	-1.3462	188	13
			3	-0.7928	197	12
	4		-0.3530	204	11	
	5		0.0361	211	10	
	6		0.4110	217	10	
	7		0.8023	224	11	
	8		1.2460	231	12	
	9		1.8032	240	13	
	10		2.6475	254	18	
	11		4.1466	279	34	
	Engineering Design	0	-4.0261	100	34	
		1	-2.4590	169	19	
		2	-1.4854	185	15	
		3	-0.7341	198	14	
		4	0.0153	210	15	
		5	0.9839	227	19	
		6	2.5458	253	34	

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
02	Life Science	0	-4.2292	100	34
		1	-2.7519	164	18
		2	-1.9444	178	13
		3	-1.4244	186	11
		4	-1.0140	193	10
		5	-0.6539	199	10
		6	-0.3165	205	10
		7	0.0136	210	10
		8	0.3465	216	10
		9	0.6920	222	10
		10	1.0641	228	10
		11	1.4888	235	11
		12	2.0228	244	13
		13	2.8406	258	18
	14	4.3210	282	34	
	Physical Science	0	-4.7387	100	34
		1	-3.2352	156	18
		2	-2.3876	170	13
		3	-1.8302	180	12
		4	-1.3928	187	11
		5	-1.0214	193	10
		6	-0.6913	199	9
		7	-0.3886	204	9
		8	-0.1039	208	9
		9	0.1699	213	9
		10	0.4395	218	9
		11	0.7123	222	9
		12	0.9981	227	9
		13	1.3117	232	10
		14	1.6789	238	11
		15	2.1553	246	13
		16	2.9136	259	17
	17	4.3468	283	34	

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	Earth and Space Science	0	-3.7240	100	34
		1	-2.2160	173	18
		2	-1.3610	188	14
		3	-0.7876	197	12
		4	-0.3191	205	11
		5	0.1037	212	11
		6	0.5113	219	11
		7	0.9269	226	11
		8	1.3804	233	12
		9	1.9292	242	13
		10	2.7474	256	18
		11	4.2184	281	34
	Engineering Design	0	-3.5393	100	34
		1	-2.0205	177	18
		2	-1.1691	191	13
		3	-0.6056	200	12
		4	-0.1375	208	11
		5	0.3103	215	11
		6	0.7896	223	12
		7	1.3657	233	14
		8	2.2116	247	18
		9	3.7008	272	34
03	Life Science	0	-4.1102	100	34
		1	-2.5687	167	18
		2	-1.6733	182	14
		3	-1.0742	192	12
		4	-0.6022	200	11
		5	-0.2025	207	10
		6	0.1522	213	10
		7	0.4811	218	9
		8	0.8021	224	9
		9	1.1369	229	10
		10	1.5169	236	11

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		11	2.0033	244	13
		12	2.7734	256	17
		13	4.2189	281	34
	Physical Science	0	-4.3157	100	34
		1	-2.8392	163	18
		2	-2.0275	176	13
		3	-1.5047	185	11
		4	-1.1001	192	10
		5	-0.7596	198	9
		6	-0.4585	203	9
		7	-0.1831	207	9
		8	0.0755	211	8
		9	0.3240	216	8
		10	0.5684	220	8
		11	0.8149	224	8
		12	1.0708	228	9
		13	1.3458	233	9
		14	1.6548	238	10
		15	2.0238	244	11
		16	2.5081	252	13
		17	3.2797	265	17
	18	4.7258	289	34	
	Earth and Space Science	0	-3.6902	100	34
		1	-2.1891	174	18
		2	-1.3462	188	13
		3	-0.7928	197	12
		4	-0.3530	204	11
		5	0.0361	211	10
		6	0.4110	217	10
		7	0.8023	224	11
8		1.2460	231	12	
9		1.8032	240	13	
10		2.6475	254	18	

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		11	4.1466	279	34
	Engineering Design	0	-4.0261	100	34
		1	-2.4590	169	19
		2	-1.4854	185	15
		3	-0.7341	198	14
		4	0.0153	210	15
		5	0.9839	227	19
		6	2.5458	253	34
04	Life Science	0	-4.2292	100	34
		1	-2.7519	164	18
		2	-1.9444	178	13
		3	-1.4244	186	11
		4	-1.0140	193	10
		5	-0.6539	199	10
		6	-0.3165	205	10
		7	0.0136	210	10
		8	0.3465	216	10
		9	0.6920	222	10
		10	1.0641	228	10
		11	1.4888	235	11
		12	2.0228	244	13
		13	2.8406	258	18
	14	4.3210	282	34	
	Physical Science	0	-4.7387	100	34
		1	-3.2352	156	18
		2	-2.3876	170	13
		3	-1.8302	180	12
		4	-1.3928	187	11
		5	-1.0214	193	10
		6	-0.6913	199	9
7		-0.3886	204	9	
8		-0.1039	208	9	
9		0.1699	213	9	

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		10	0.4395	218	9
		11	0.7123	222	9
		12	0.9981	227	9
		13	1.3117	232	10
		14	1.6789	238	11
		15	2.1553	246	13
		16	2.9136	259	17
		17	4.3468	283	34
	Earth and Space Science	0	-3.7240	100	34
		1	-2.2160	173	18
		2	-1.3610	188	14
		3	-0.7876	197	12
		4	-0.3191	205	11
		5	0.1037	212	11
		6	0.5113	219	11
		7	0.9269	226	11
		8	1.3804	233	12
		9	1.9292	242	13
		10	2.7474	256	18
		11	4.2184	281	34
	Engineering Design	0	-3.5393	100	34
		1	-2.0205	177	18
		2	-1.1691	191	13
		3	-0.6056	200	12
		4	-0.1375	208	11
		5	0.3103	215	11
		6	0.7896	223	12
		7	1.3657	233	14
		8	2.2116	247	18
		9	3.7008	272	34

Grade 11 Science

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
01	Life Science	0	-4.7628	100	34
		1	-3.2701	153	18
		2	-2.4376	167	13
		3	-1.8948	176	11
		4	-1.4705	183	10
		5	-1.1101	189	10
		6	-0.7884	194	9
		7	-0.4911	199	9
		8	-0.2084	204	9
		9	0.0671	209	9
		10	0.3424	213	9
		11	0.6253	218	9
		12	0.9250	223	9
		13	1.2551	228	10
		14	1.6393	235	11
		15	2.1298	243	13
		16	2.8943	256	17
	17	4.3233	280	34	
	Physical Science	0	-3.0559	100	33
		1	-1.6663	180	17
		2	-0.9256	192	13
		3	-0.4330	200	11
		4	-0.0229	207	10
		5	0.3563	213	10
		6	0.7284	220	10
		7	1.1089	226	10
		8	1.5128	233	11
		9	1.9633	240	12
		10	2.5116	249	13
		11	3.3250	263	18
		12	4.7847	287	34

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	Earth and Space Science	0	-4.5497	100	35
		1	-2.9111	159	19
		2	-1.9207	175	15
		3	-1.2571	187	13
		4	-0.7296	195	12
		5	-0.2679	203	11
		6	0.1635	210	11
		7	0.5864	217	11
		8	1.0194	224	11
		9	1.4882	232	12
		10	2.0464	242	13
		11	2.8643	255	18
	12	4.3260	280	34	
	Engineering Design	0	-3.2246	100	34
		1	-1.6669	180	19
		2	-0.7206	195	15
		3	-0.0207	207	13
		4	0.6182	218	13
		5	1.2799	229	14
		6	2.1280	243	17
		7	3.5434	267	33
	02 Life Science	0	-4.6391	100	34
1		-3.1545	155	18	
2		-2.3273	169	13	
3		-1.7841	178	11	
4		-1.3543	185	10	
5		-0.9835	191	10	
6		-0.6463	197	10	
7		-0.3281	202	9	
8		-0.0190	207	9	
9		0.2892	212	9	
10		0.6039	218	9	
11		0.9339	223	10	

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		12	1.2915	229	10
		13	1.6989	236	11
		14	2.2074	244	13
		15	2.9846	257	17
		16	4.4199	281	34
	Physical Science	0	-3.8351	100	34
		1	-2.3912	168	17
		2	-1.6180	181	13
		3	-1.1241	189	11
		4	-0.7349	195	10
		5	-0.3922	201	10
		6	-0.0667	206	9
		7	0.2617	212	10
		8	0.6127	218	10
		9	1.0136	224	11
		10	1.5190	233	13
		11	2.2992	246	17
		12	3.7415	270	34
	Earth and Space Science	0	-4.5497	100	35
		1	-2.9111	159	19
		2	-1.9207	175	15
		3	-1.2571	187	13
		4	-0.7296	195	12
		5	-0.2679	203	11
		6	0.1635	210	11
		7	0.5864	217	11
		8	1.0194	224	11
		9	1.4882	232	12
		10	2.0464	242	13
		11	2.8643	255	18
		12	4.3260	280	34
	Engineering Design	0	-3.7340	100	35
		1	-2.0772	173	20

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		2	-0.9817	191	16
		3	-0.1639	205	14
		4	0.5142	216	13
		5	1.1173	226	13
		6	1.7415	237	14
		7	2.6103	251	18
		8	4.1503	277	34
03	Life Science	0	-4.7482	100	34
		1	-3.2419	153	18
		2	-2.3923	168	13
		3	-1.8335	177	12
		4	-1.3942	184	11
		5	-1.0195	190	10
		6	-0.6839	196	9
		7	-0.3728	201	9
		8	-0.0754	206	9
		9	0.2177	211	9
		10	0.5168	216	9
		11	0.8342	221	10
		12	1.1859	227	10
		13	1.5964	234	11
		14	2.1149	243	13
		15	2.9004	256	17
	16	4.3311	280	34	
	Physical Science	0	-3.9339	100	34
		1	-2.4163	167	18
		2	-1.5485	182	14
		3	-0.9682	191	12
		4	-0.5013	199	11
		5	-0.0880	206	11
		6	0.3032	213	10
		7	0.6945	219	11
		8	1.1058	226	11

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		9	1.5626	234	12
		10	2.1142	243	13
		11	2.9209	256	17
		12	4.3606	280	34
	Earth and Space Science	0	-4.5497	100	35
		1	-2.9111	159	19
		2	-1.9207	175	15
		3	-1.2571	187	13
		4	-0.7296	195	12
		5	-0.2679	203	11
		6	0.1635	210	11
		7	0.5864	217	11
		8	1.0194	224	11
		9	1.4882	232	12
		10	2.0464	242	13
		11	2.8643	255	18
		12	4.3260	280	34
	Engineering Design	0	-3.7340	100	35
		1	-2.0772	173	20
		2	-0.9817	191	16
		3	-0.1639	205	14
		4	0.5142	216	13
		5	1.1173	226	13
		6	1.7415	237	14
7		2.6103	251	18	
8		4.1503	277	34	
04 Life Science	0	-4.7410	100	34	
	1	-3.2507	153	18	
	2	-2.4223	167	13	
	3	-1.8835	176	11	
	4	-1.4621	183	10	
	5	-1.1026	189	10	
	6	-0.7788	194	9	

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM	
		7	-0.4759	200	9	
		8	-0.1841	204	9	
		9	0.1038	209	9	
		10	0.3938	214	9	
		11	0.6918	219	9	
		12	1.0047	224	9	
		13	1.3436	230	10	
		14	1.7301	236	11	
		15	2.2154	244	13	
		16	2.9677	257	17	
		17	4.3838	281	33	
		Physical Science	0	-3.8351	100	34
			1	-2.3912	168	17
			2	-1.6180	181	13
			3	-1.1241	189	11
			4	-0.7349	195	10
			5	-0.3922	201	10
	6		-0.0667	206	9	
	7		0.2617	212	10	
	8		0.6127	218	10	
	9		1.0136	224	11	
	10		1.5190	233	13	
	11		2.2992	246	17	
	12		3.7415	270	34	
	Earth and Space Science	0	-4.5497	100	35	
		1	-2.9111	159	19	
		2	-1.9207	175	15	
		3	-1.2571	187	13	
		4	-0.7296	195	12	
		5	-0.2679	203	11	
		6	0.1635	210	11	
		7	0.5864	217	11	
		8	1.0194	224	11	

Form	Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
		9	1.4882	232	12
		10	2.0464	242	13
		11	2.8643	255	18
		12	4.3260	280	34
	Engineering Design	0	-3.2246	100	34
		1	-1.6669	180	19
		2	-0.7206	195	15
		3	-0.0207	207	13
		4	0.6182	218	13
		5	1.2799	229	14
		6	2.1280	243	17
		7	3.5434	267	33

Grade 5 Social Studies

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Government Civics	0	-3.7885	100	34
	1	-2.3189	164	18
	2	-1.5066	178	13
	3	-0.9709	187	11
	4	-0.5393	194	11
	5	-0.1548	200	10
	6	0.2117	207	10
	7	0.5807	213	10
	8	0.9727	219	11
	9	1.4140	227	12
	10	1.9473	235	13
	11	2.6547	247	15
	12	3.7385	265	20
	13	5.4659	294	35
Cultures and Societies	0	-3.6442	100	34
	1	-2.1836	167	18

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	2	-1.3794	180	13
	3	-0.8382	189	12
	4	-0.3773	197	11
	5	0.0724	204	11
	6	0.5565	212	12
	7	1.1193	222	13
	8	1.8235	233	15
	9	2.8322	250	19
	10	4.4529	277	35
	Economics	0	-3.9138	100
1		-2.4084	163	18
2		-1.5429	177	14
3		-0.9445	187	12
4		-0.4346	196	12
5		0.0526	204	12
6		0.5618	212	12
7		1.1411	222	13
8		1.8612	234	15
9		2.8893	251	19
10		4.5220	278	35
Geography	0	-3.9792	100	34
	1	-2.4714	162	18
	2	-1.6002	176	14
	3	-0.9944	186	12
	4	-0.4775	195	12
	5	0.0155	203	12
	6	0.5312	212	12
	7	1.1349	222	14
	8	2.0034	236	18
	9	3.5093	261	34
Historical Perspective	0	-4.2510	100	34
	1	-2.8058	156	17
	2	-2.0289	169	13

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	3	-1.5327	177	11
	4	-1.1461	184	10
	5	-0.8140	189	9
	6	-0.5102	194	9
	7	-0.2188	199	9
	8	0.0725	204	9
	9	0.3764	209	9
	10	0.7087	215	10
	11	1.0957	221	11
	12	1.5921	230	13
	13	2.3695	242	17
	14	3.8150	267	34

Grade 8 Social Studies

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Government Civics	0	-3.7525	100	34
	1	-2.2815	165	18
	2	-1.4687	179	13
	3	-0.9343	187	11
	4	-0.5060	195	11
	5	-0.1275	201	10
	6	0.2301	207	10
	7	0.5867	213	10
	8	0.9628	219	10
	9	1.3869	226	11
	10	1.9157	235	13
	11	2.7214	248	18
	12	4.1863	273	34
Cultures and Societies	0	-3.7789	100	33
	1	-2.4450	162	16
	2	-1.7324	174	13

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	3	-1.2199	183	12
	4	-0.7373	191	12
	5	-0.2271	199	12
	6	0.3392	209	13
	7	0.9924	220	14
	8	1.7769	233	16
	9	2.7991	250	19
	10	4.3517	276	34
Economics	0	-3.7632	100	32
	1	-2.4436	162	17
	2	-1.6833	175	13
	3	-1.1009	185	12
	4	-0.5584	194	12
	5	-0.0292	203	12
	6	0.5035	211	12
	7	1.0740	221	13
	8	1.7508	232	15
	9	2.7205	248	19
	10	4.3242	275	35
Geography	0	-3.7022	100	33
	1	-2.3178	164	17
	2	-1.5871	177	13
	3	-1.0878	185	11
	4	-0.6408	192	11
	5	-0.1814	200	12
	6	0.3251	208	12
	7	0.9053	218	13
	8	1.6098	230	15
	9	2.6085	247	19
	10	4.2272	274	35
Historical Perspective	0	-3.9256	100	34
	1	-2.4636	162	18
	2	-1.6666	175	13

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	3	-1.1525	184	11
	4	-0.7499	191	10
	5	-0.4035	196	10
	6	-0.0869	202	9
	7	0.2159	207	9
	8	0.5176	212	9
	9	0.8308	217	9
	10	1.1716	223	10
	11	1.5661	229	11
	12	2.0696	238	13
	13	2.8532	251	17
	14	4.3030	275	34

Appendix I. Score Frequency Distributions³

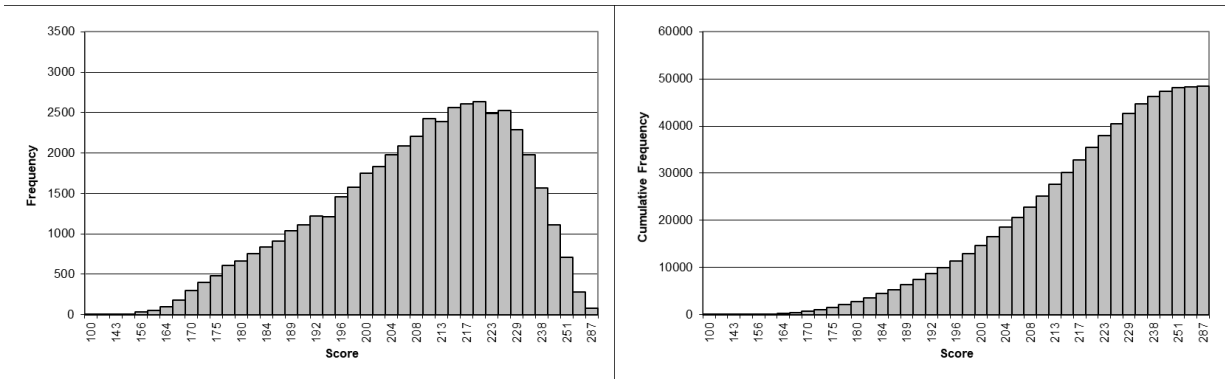


Figure 1. Reading Grade 3 Score Frequency and Cumulative Frequency Distributions

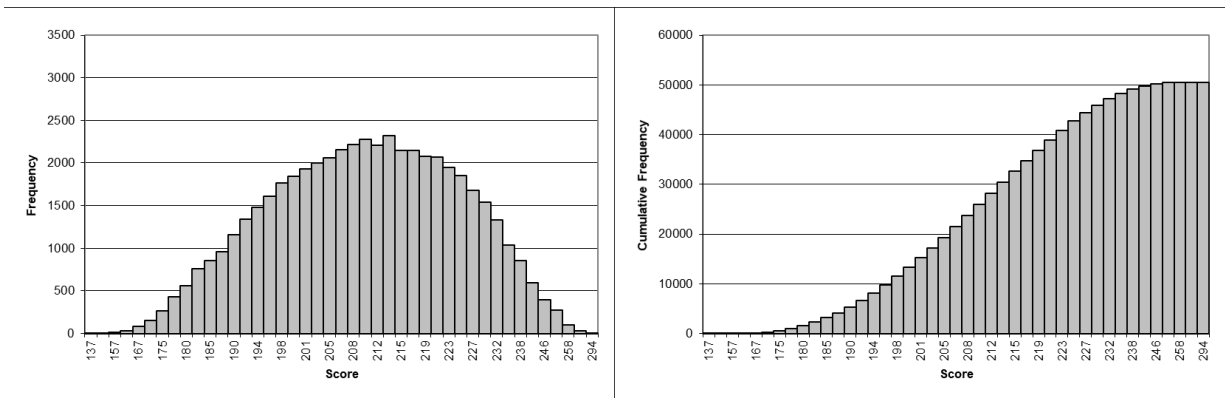


Figure 2. Reading Grade 4 Score Frequency and Cumulative Frequency Distributions

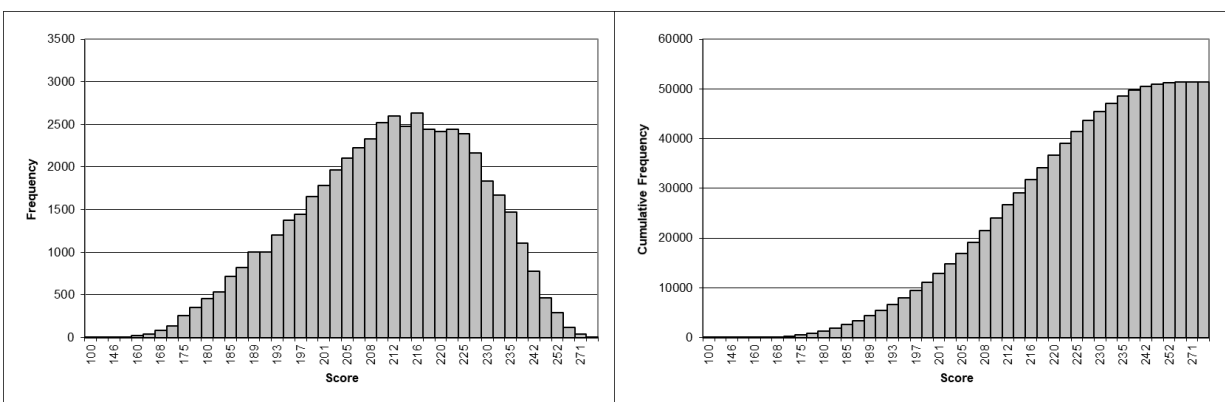


Figure 3. Reading Grade 5 Score Frequency and Cumulative Frequency Distributions

³ Alternate K-PREP students are not included.

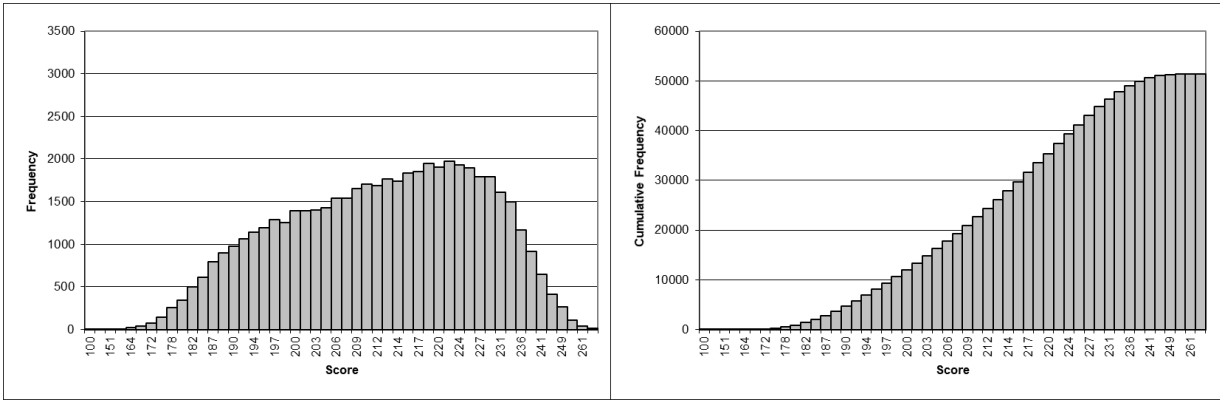


Figure 4. Reading Grade 6 Score Frequency and Cumulative Frequency Distributions

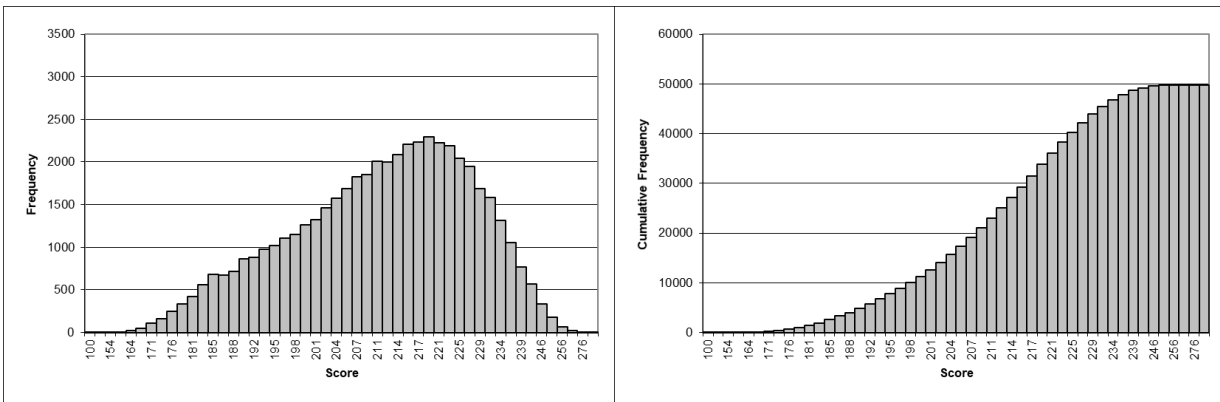


Figure 5. Reading Grade 7 Score Frequency and Cumulative Frequency Distributions

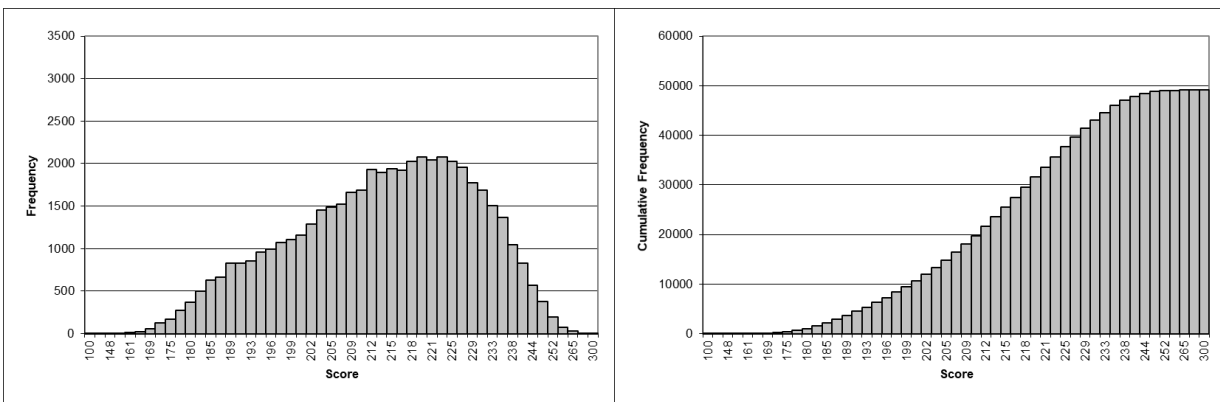


Figure 6. Reading Grade 8 Score Frequency and Cumulative Frequency Distributions

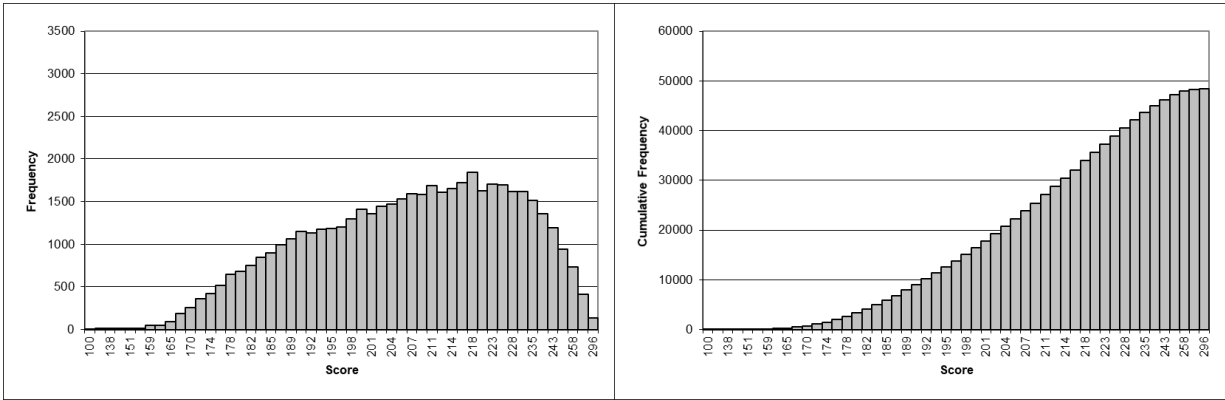


Figure 7. Mathematics Grade 3 Score Frequency and Cumulative Frequency Distributions

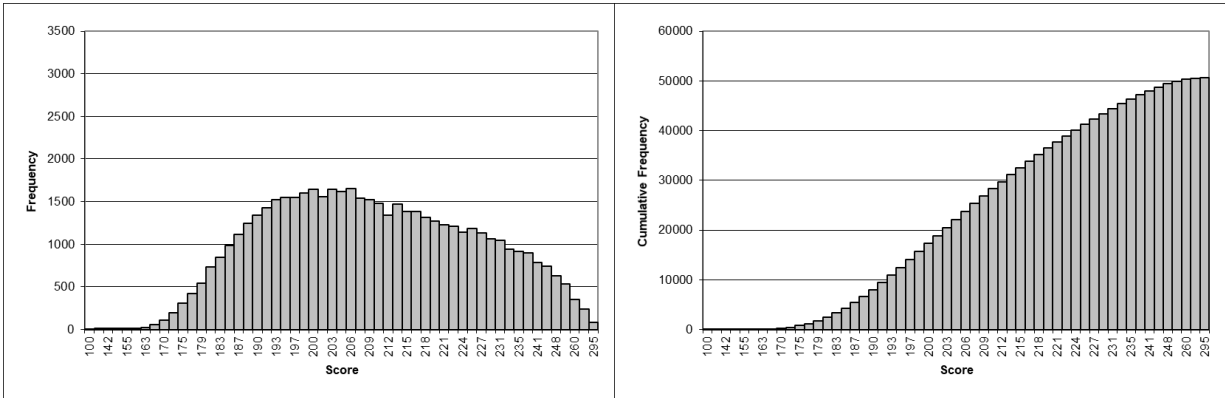


Figure 8. Mathematics Grade 4 Score Frequency and Cumulative Frequency Distributions

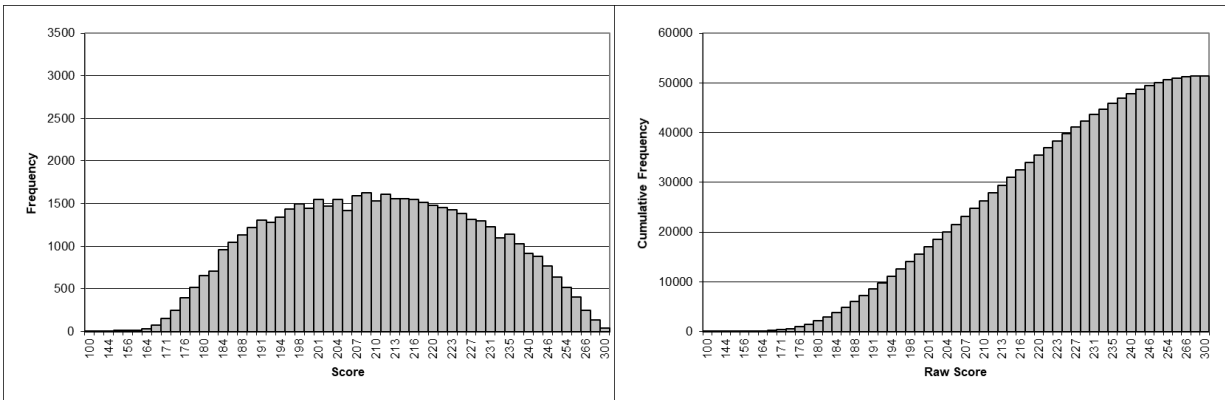


Figure 9. Mathematics Grade 5 Score Frequency and Cumulative Frequency Distributions

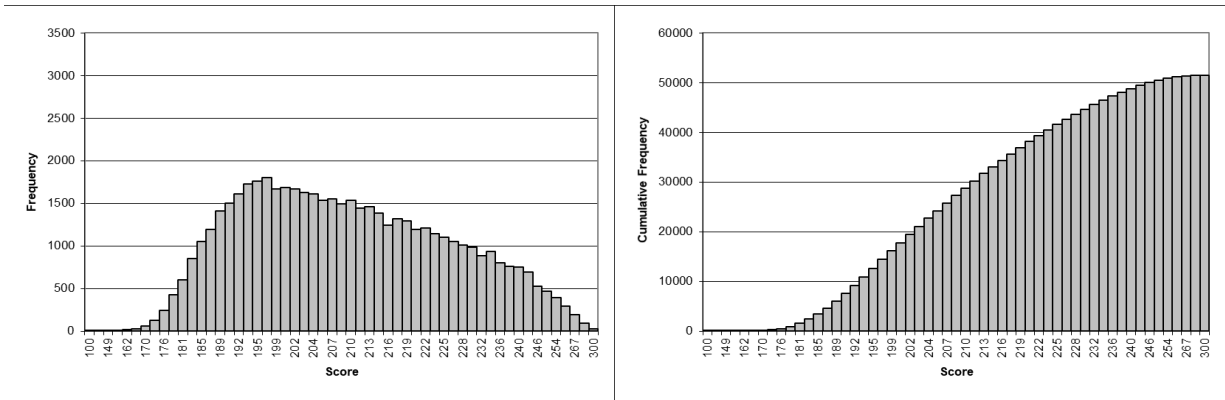


Figure 10. Mathematics Grade 6 Score Frequency and Cumulative Frequency Distributions

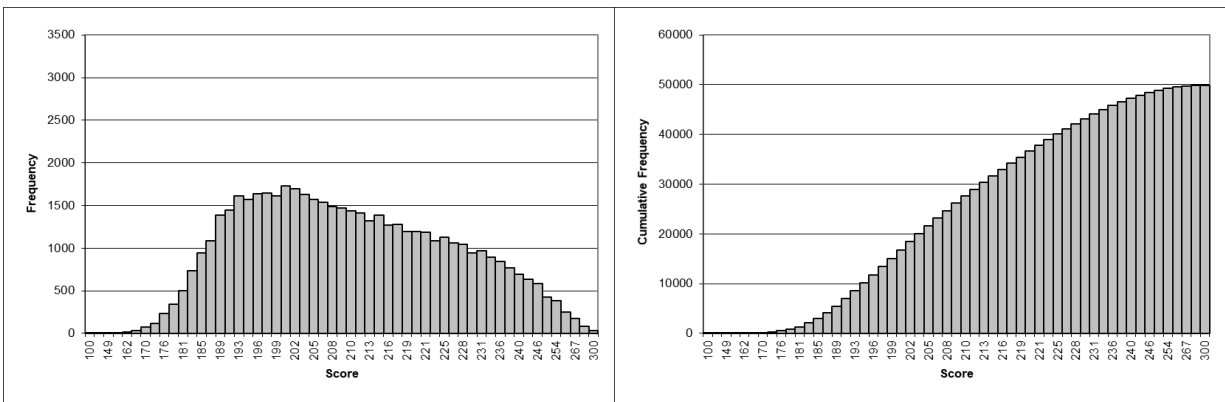


Figure 11. Mathematics Grade 7 Score Frequency and Cumulative Frequency Distributions

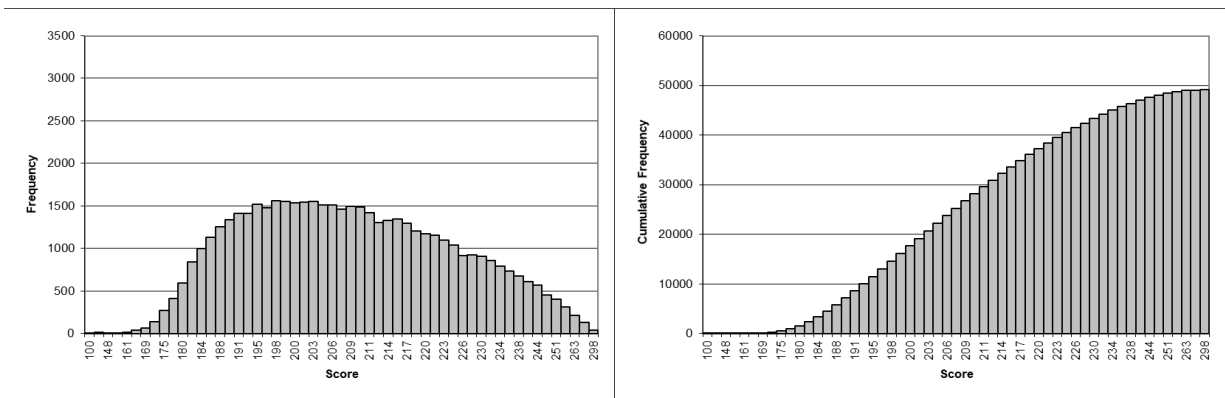


Figure 12. Mathematics Grade 8 Score Frequency and Cumulative Frequency Distributions

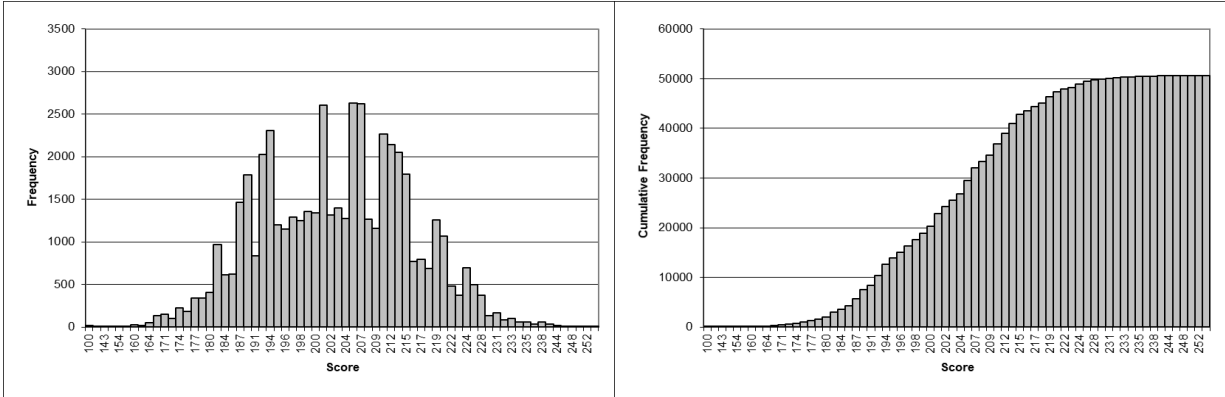


Figure 13. Science Grade 4 Score Frequency and Cumulative Frequency Distributions

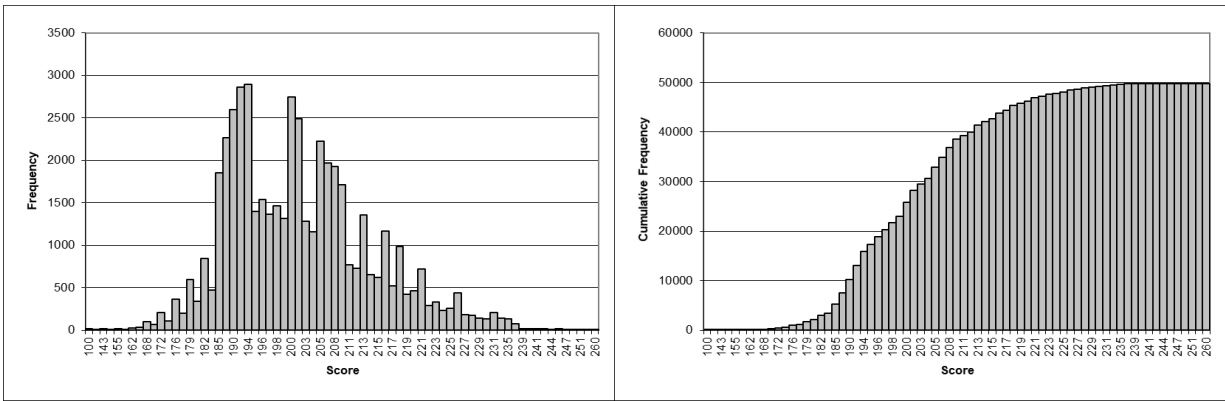


Figure 14. Science Grade 7 Score Frequency and Cumulative Frequency Distributions

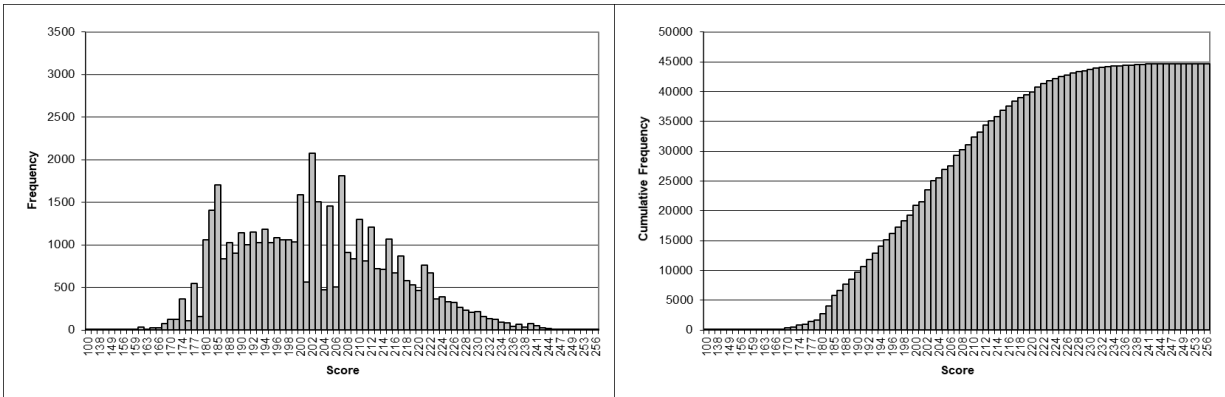


Figure 15. Science Grade 11 Score Frequency and Cumulative Frequency Distributions

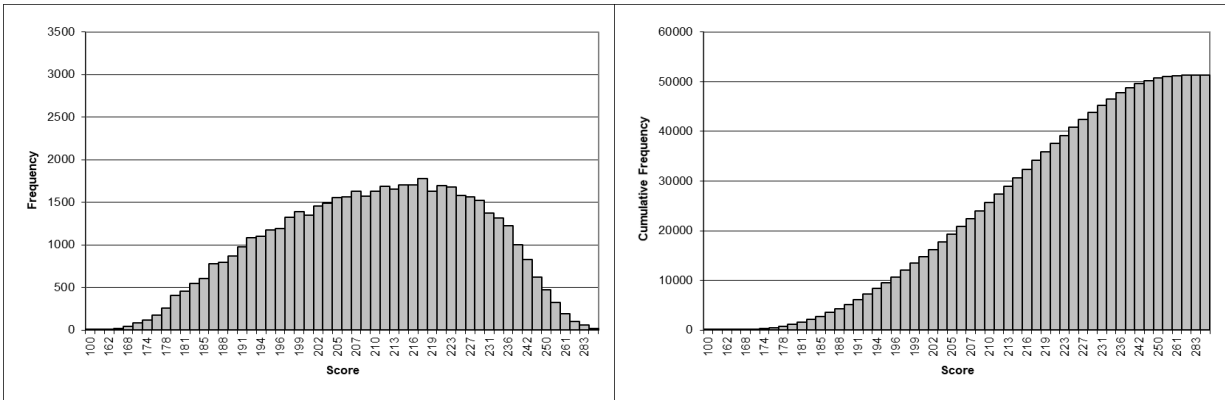


Figure 16. Social Studies Grade 5 Score Frequency and Cumulative Frequency Distributions

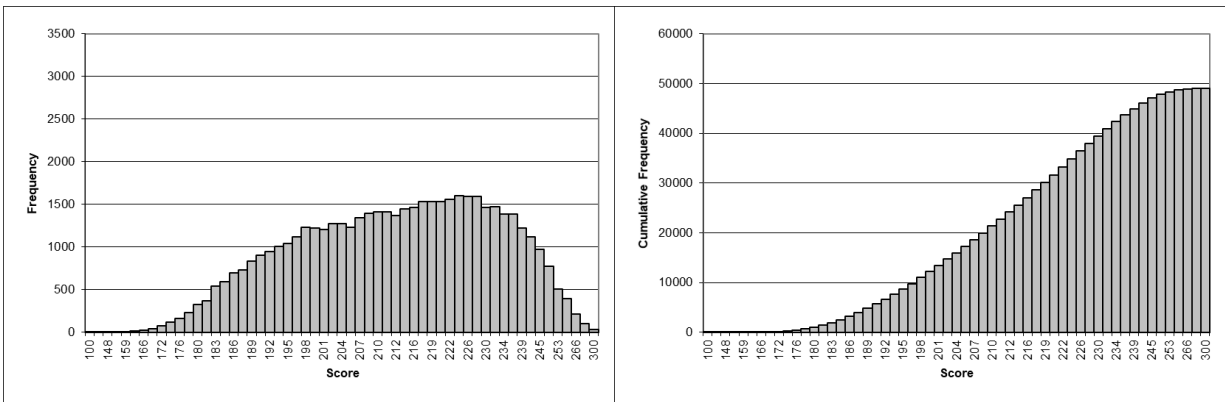


Figure 17. Social Studies Grade 8 Score Frequency and Cumulative Frequency Distributions

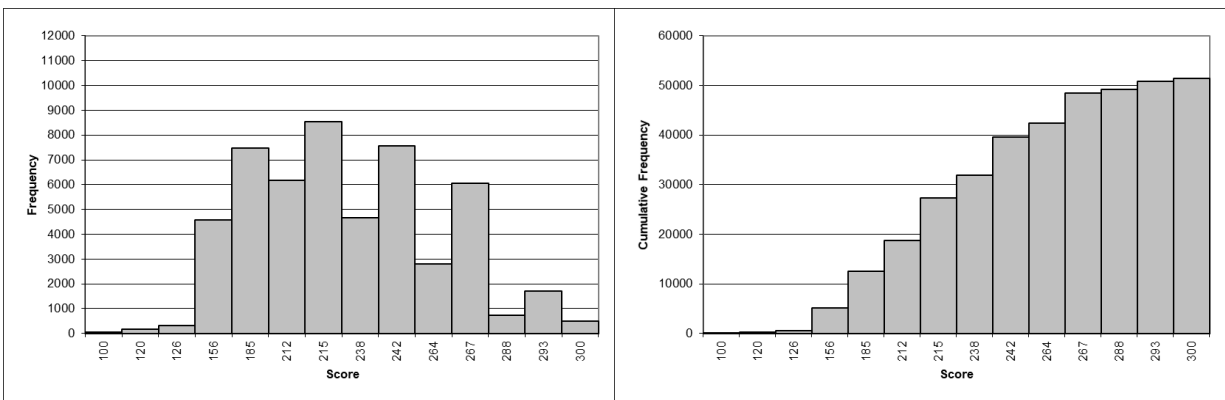


Figure 18. On Demand Writing Grade 5 Cumulative Frequency Distributions⁴

⁴ For all grades in Writing, cumulative score distributions are presented due to score distributions from multiple test forms administered.

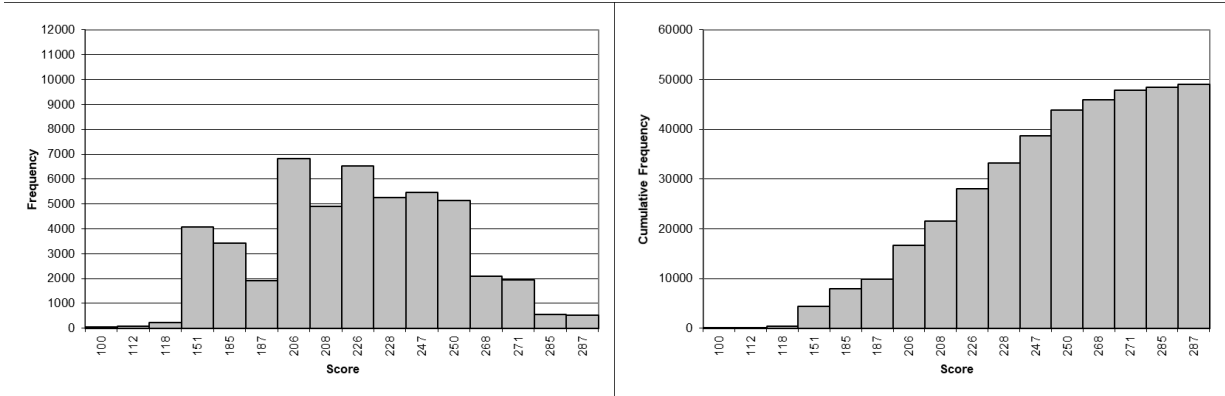


Figure 19. On Demand Writing Grade 8 Score Frequency and Cumulative Frequency Distributions

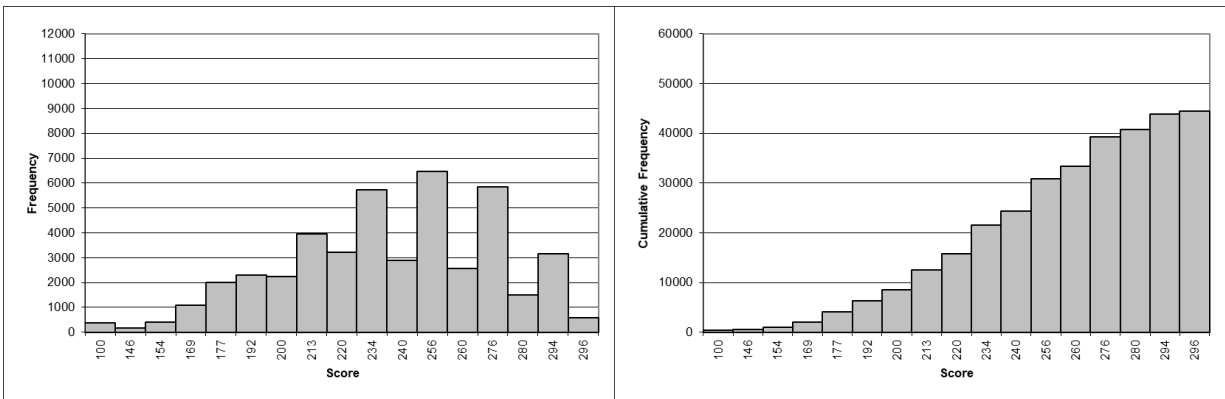


Figure 20. On Demand Writing Grade 11 Score Frequency and Cumulative Frequency Distributions

Appendix J. Score Frequency Distributions— Subdomain⁵

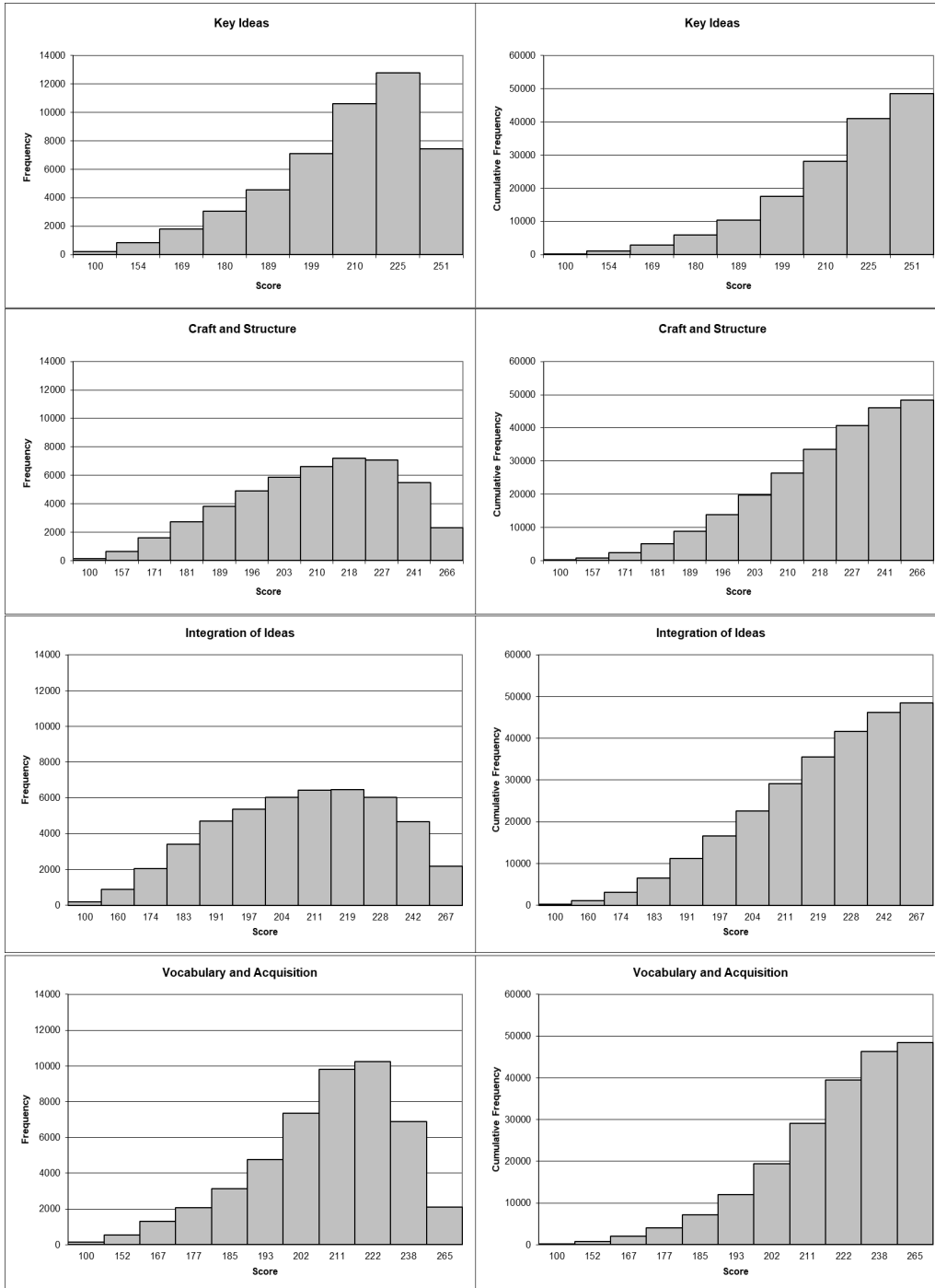


Figure 1. Reading Grade 3 Reporting Category Score Frequency and Cumulative Frequency Distributions

⁵ Alternate K-PREP students are not included.

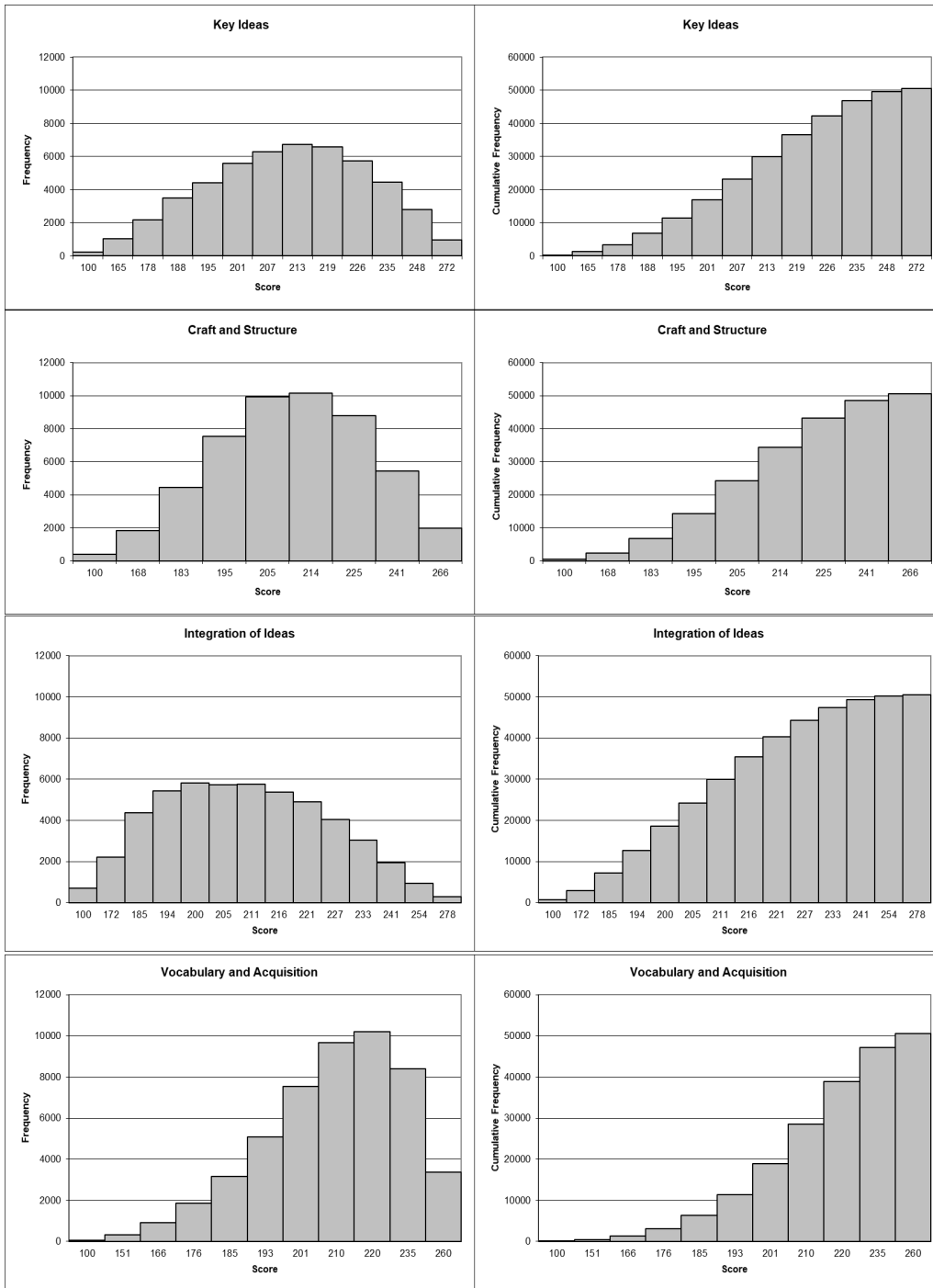


Figure 2. Reading Grade 4 Reporting Category Score Frequency and Cumulative Frequency Distributions

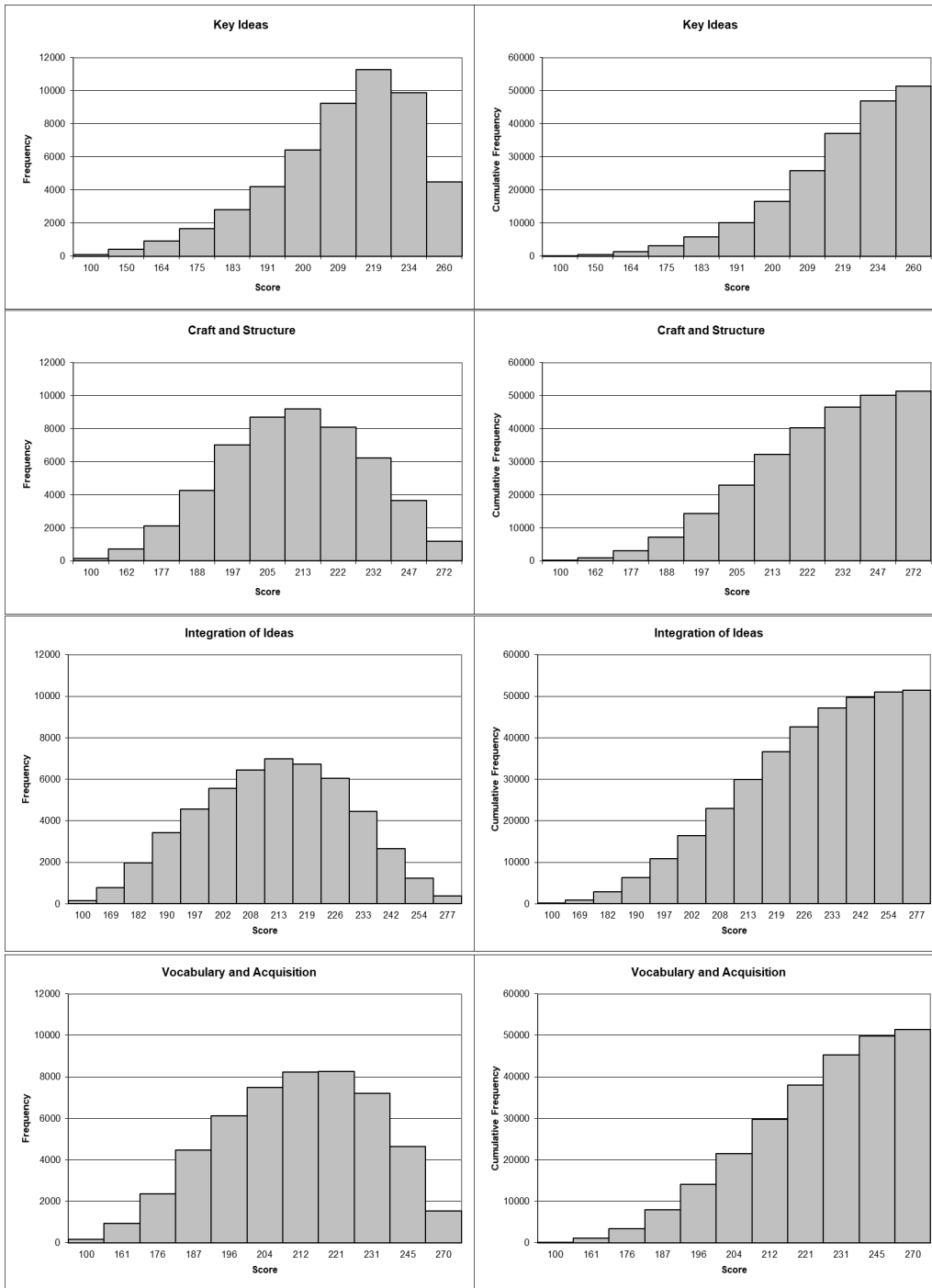


Figure 3. Reading Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions

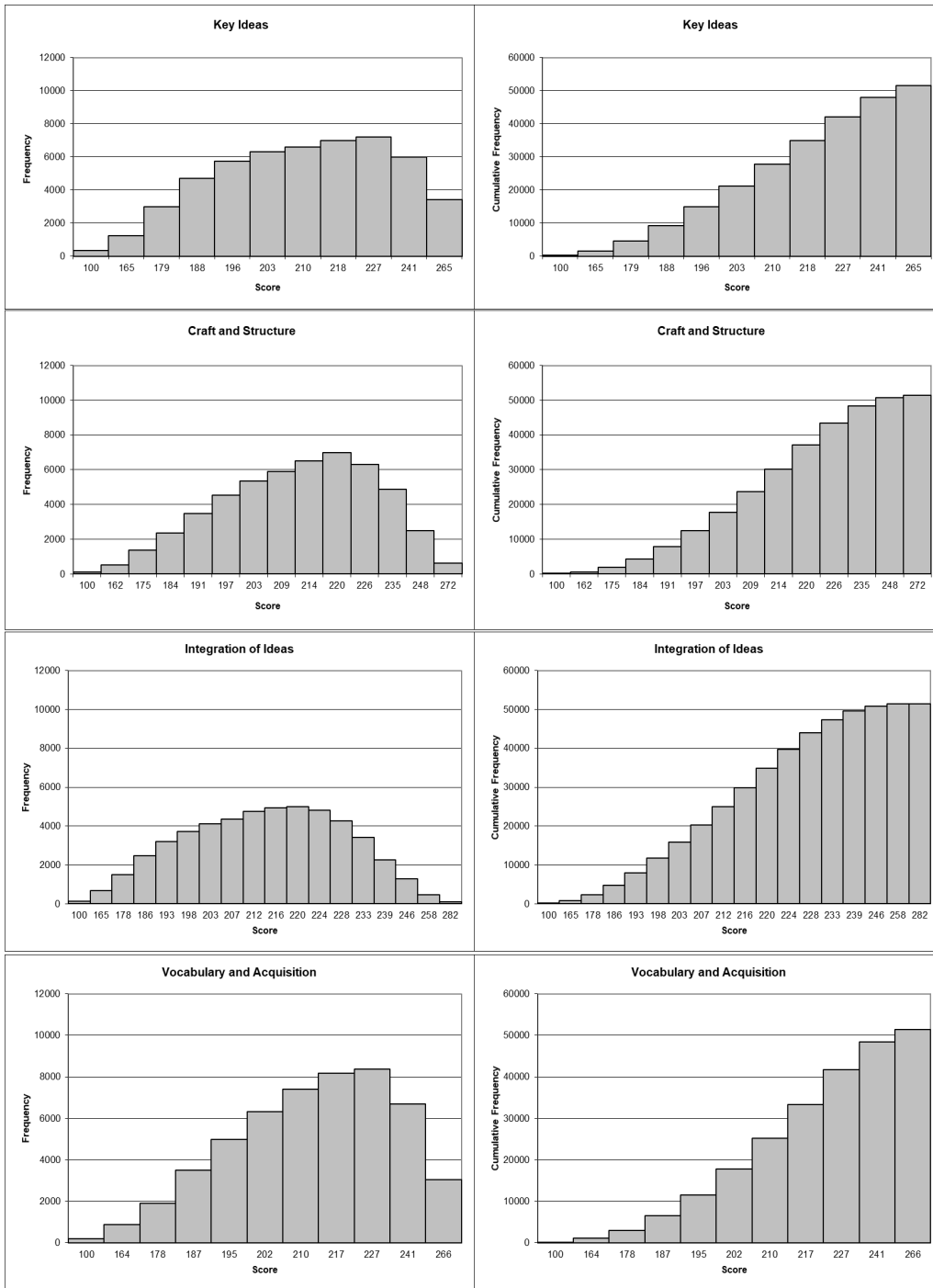


Figure 4. Reading Grade 6 Reporting Category Score Frequency and Cumulative Frequency Distributions

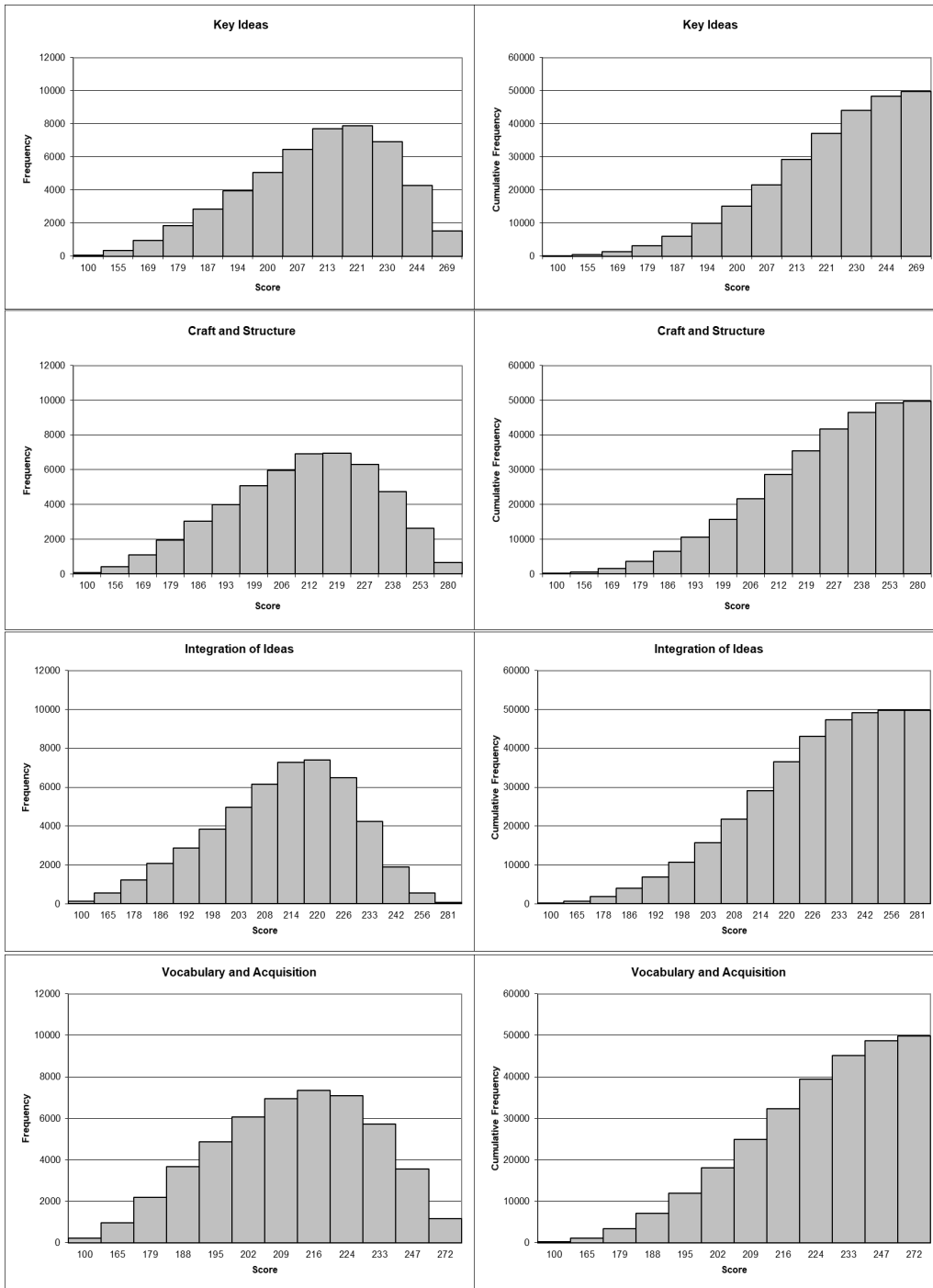


Figure 5. Reading Grade 7 Reporting Category Score Frequency and Cumulative Frequency Distributions

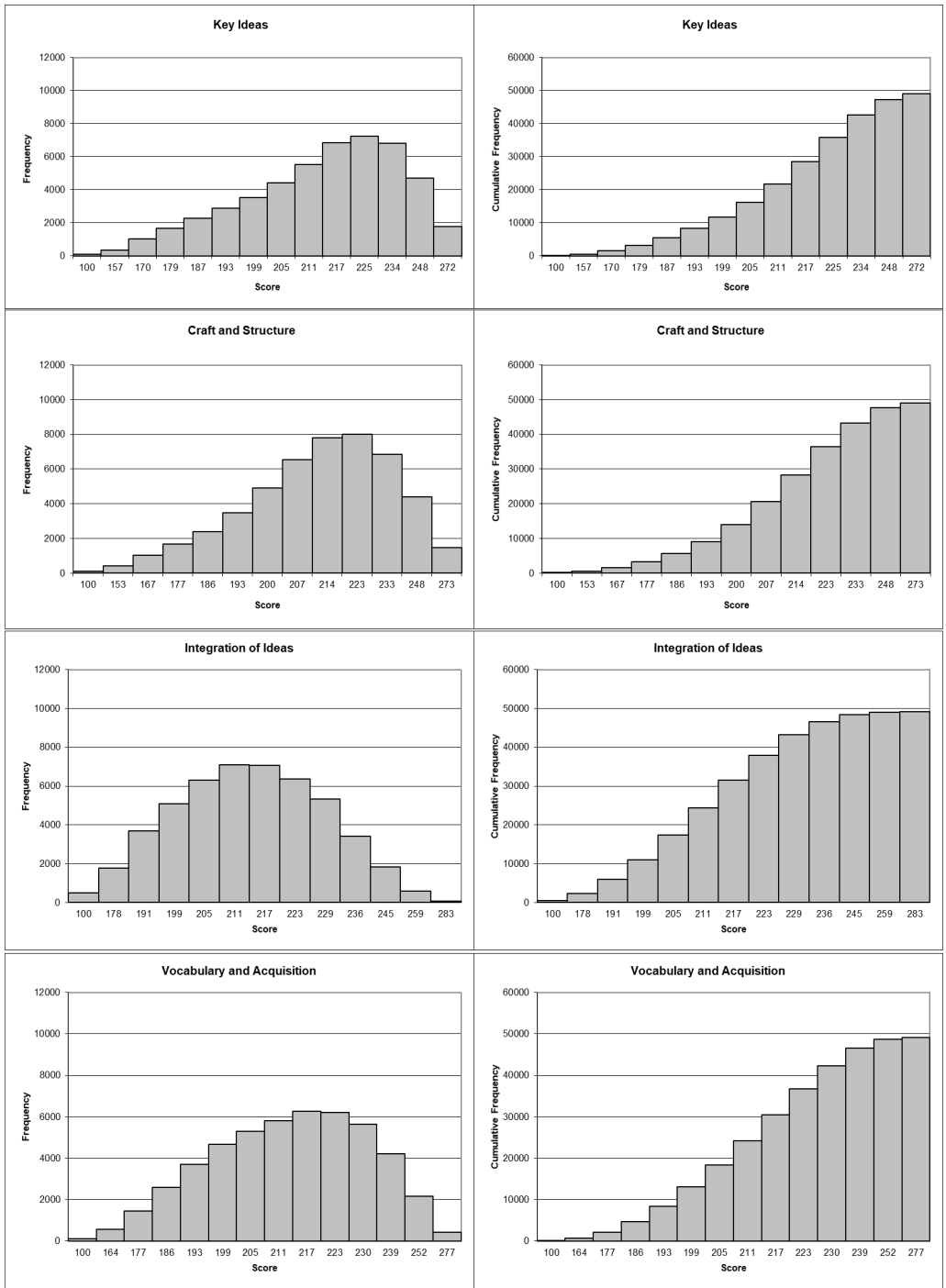


Figure 6. Reading Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions

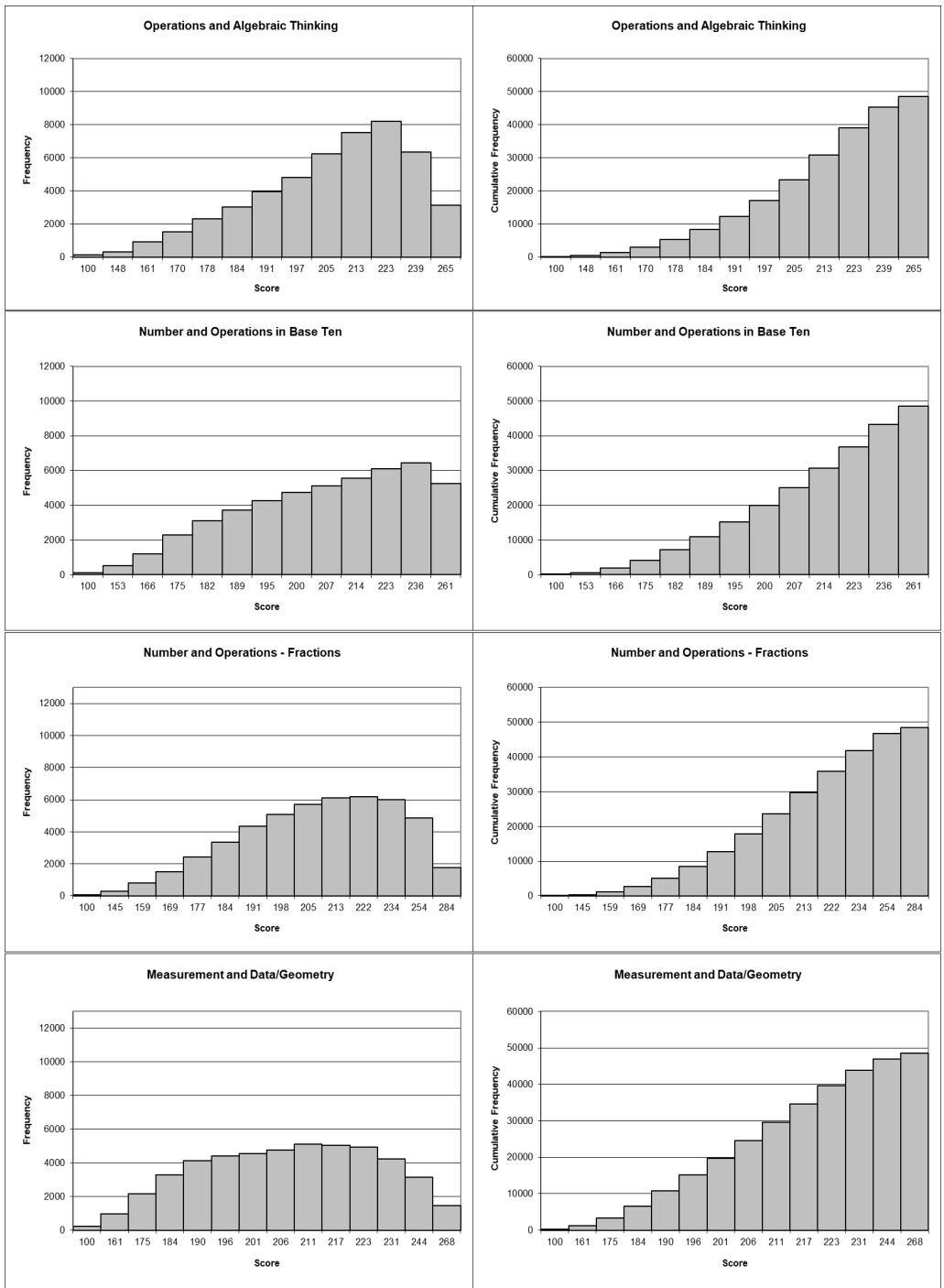


Figure 7. Mathematics Grade 3 Reporting Category Score Frequency and Cumulative Frequency Distributions

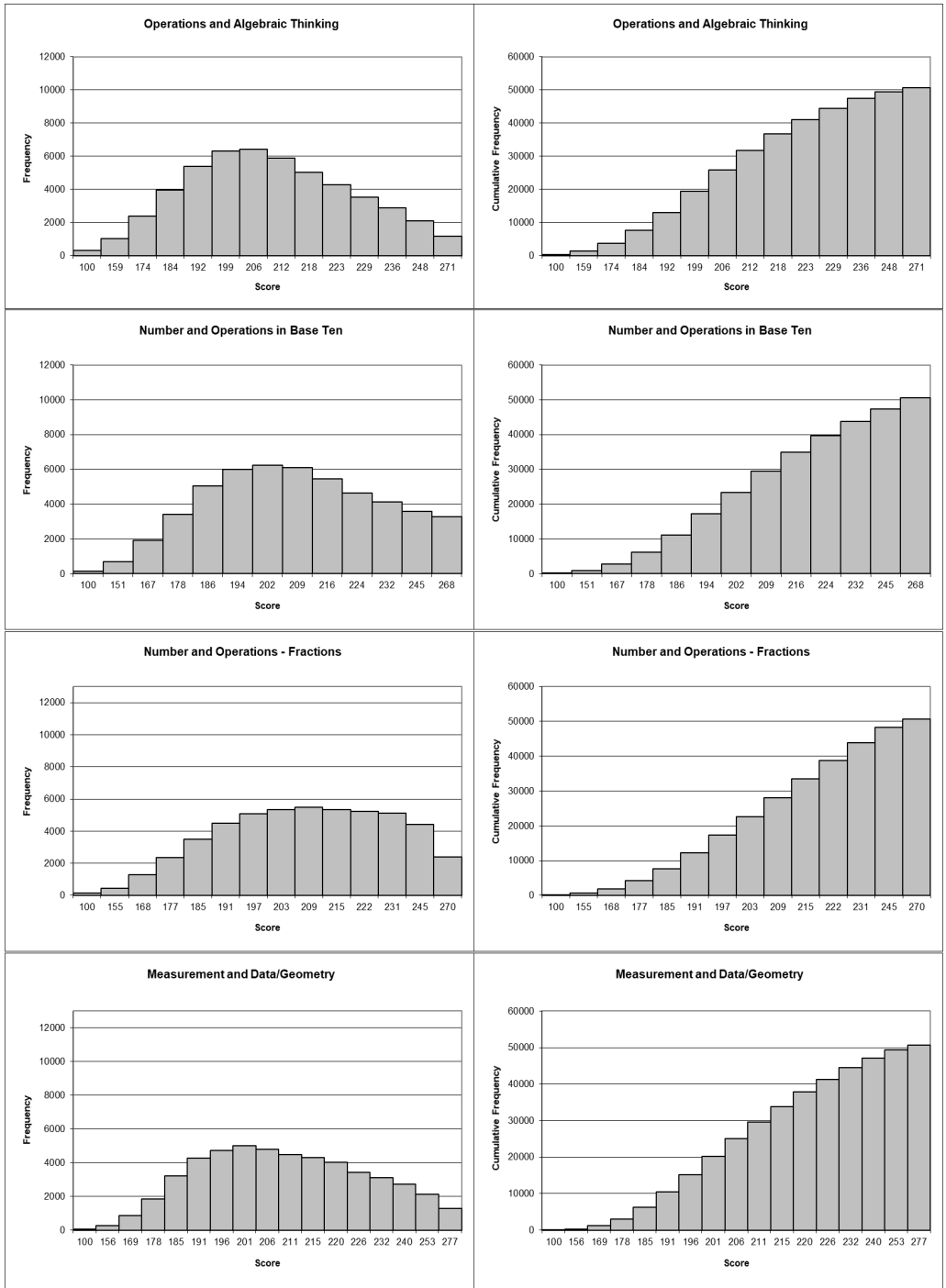


Figure 8. Mathematics Grade 4 Reporting Category Score Frequency and Cumulative Frequency Distributions

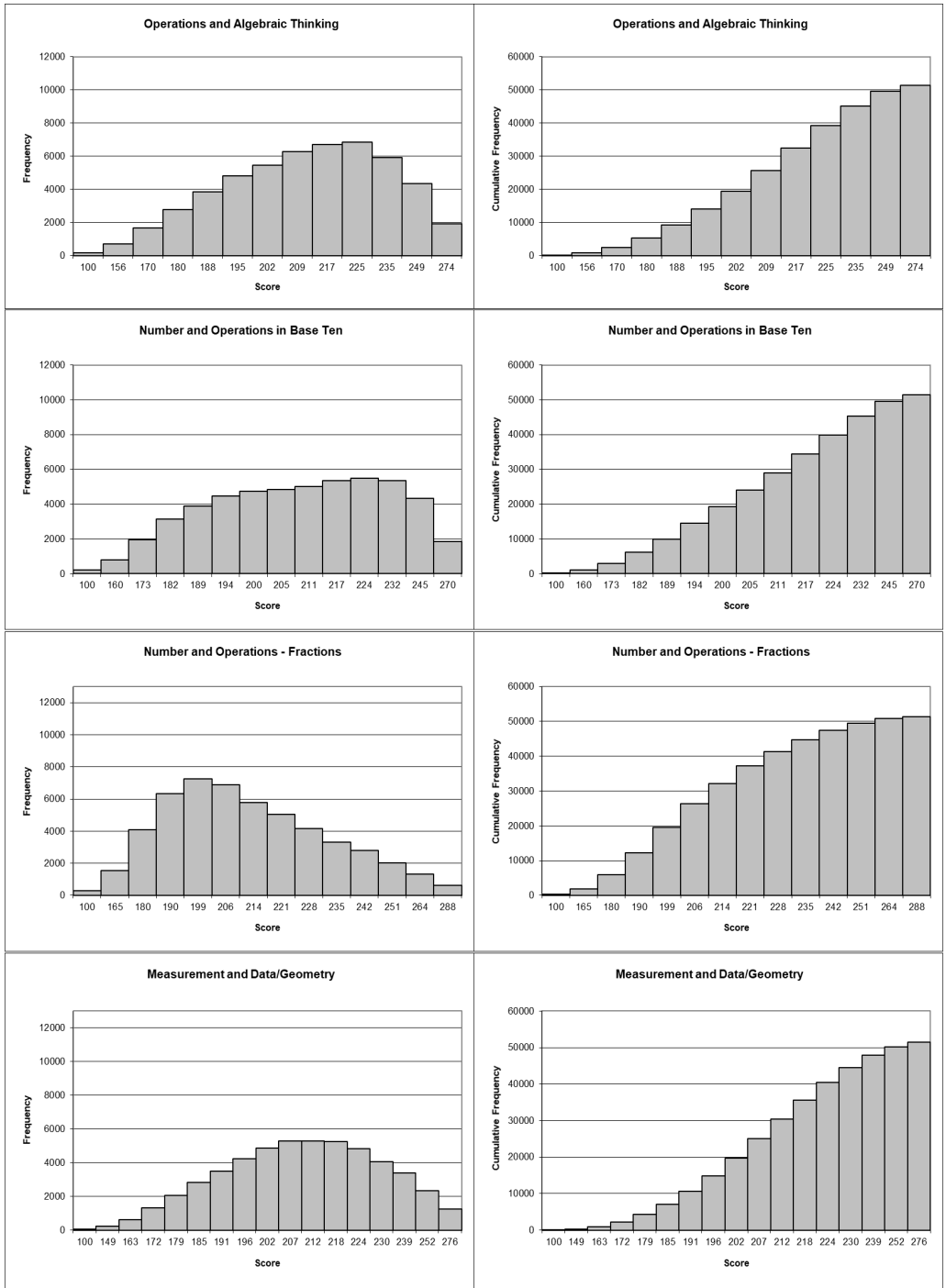


Figure 9. Mathematics Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions

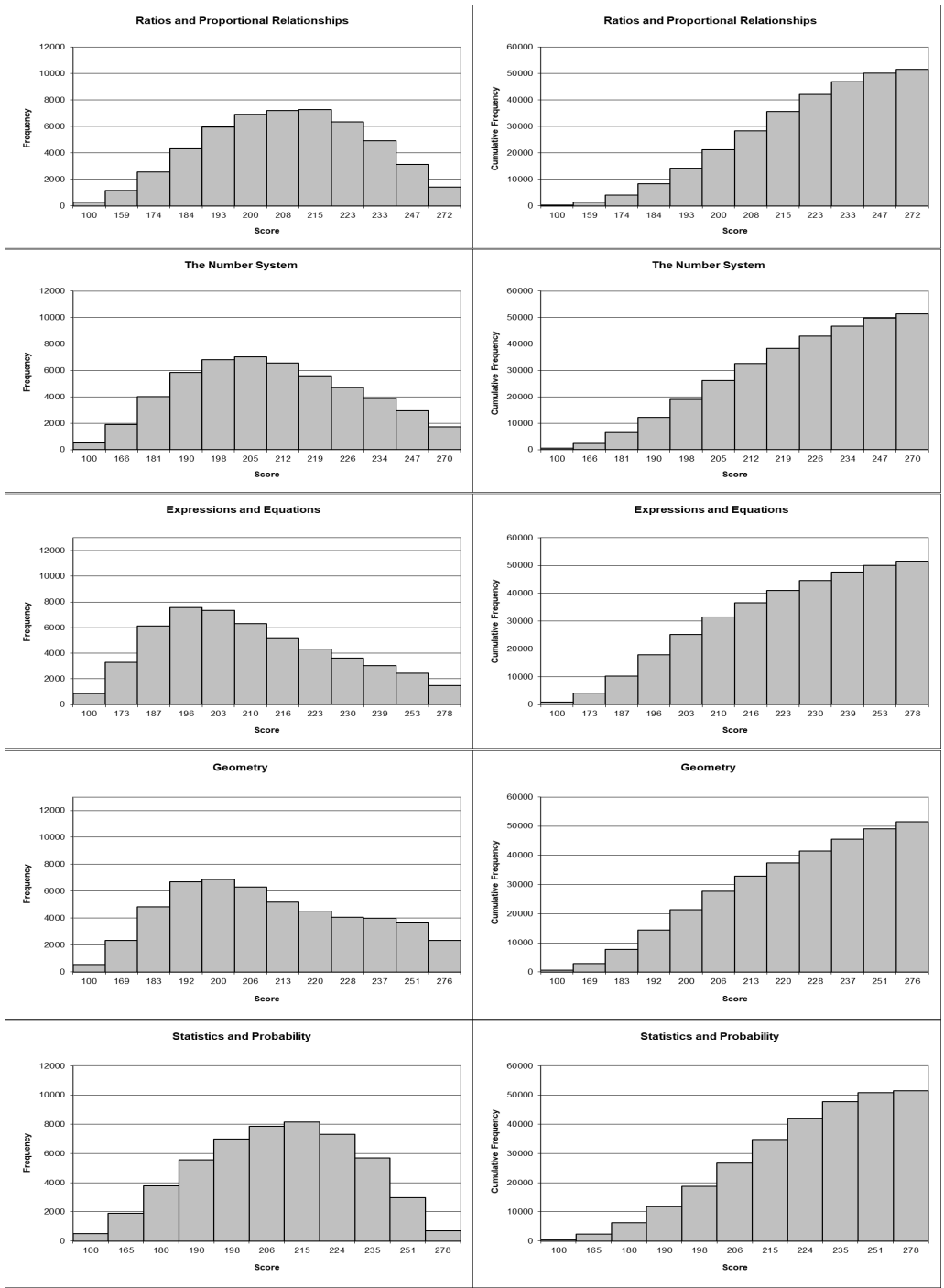


Figure 10. Mathematics Grade 6 Reporting Category Score Frequency and Cumulative Frequency Distributions

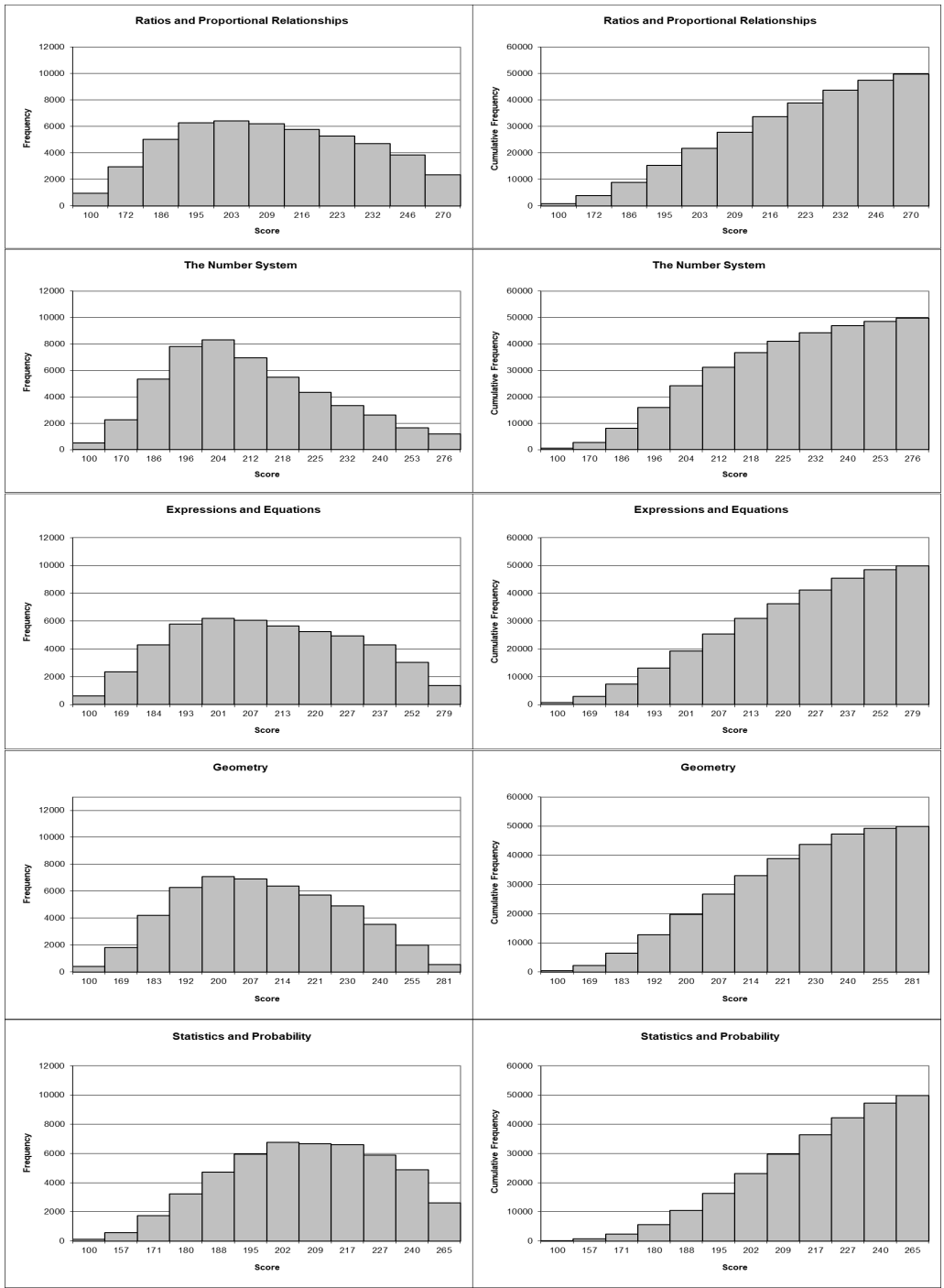


Figure 11. Mathematics Grade 7 Reporting Category Score Frequency and Cumulative Frequency Distributions

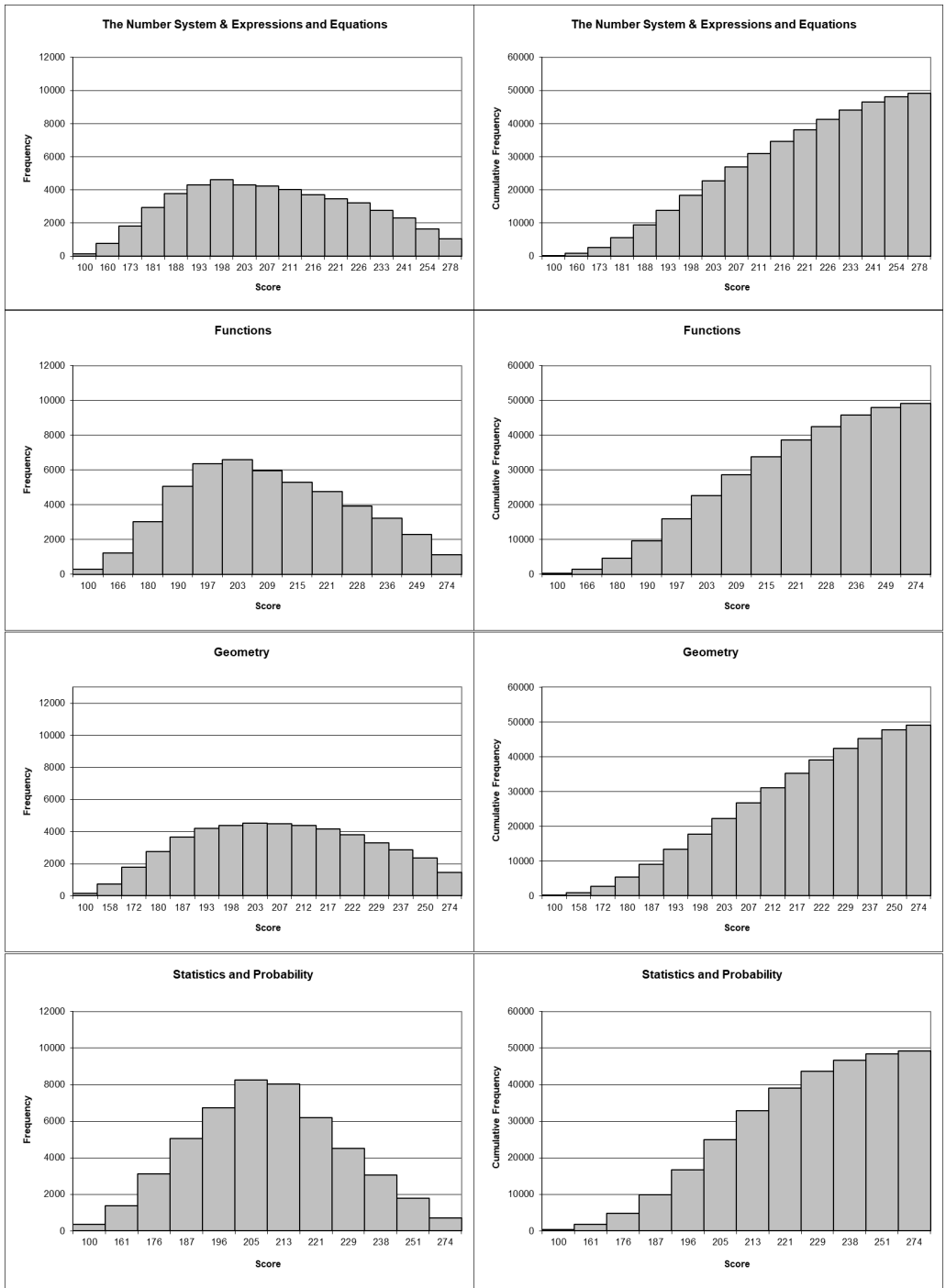


Figure 12. Mathematics Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions

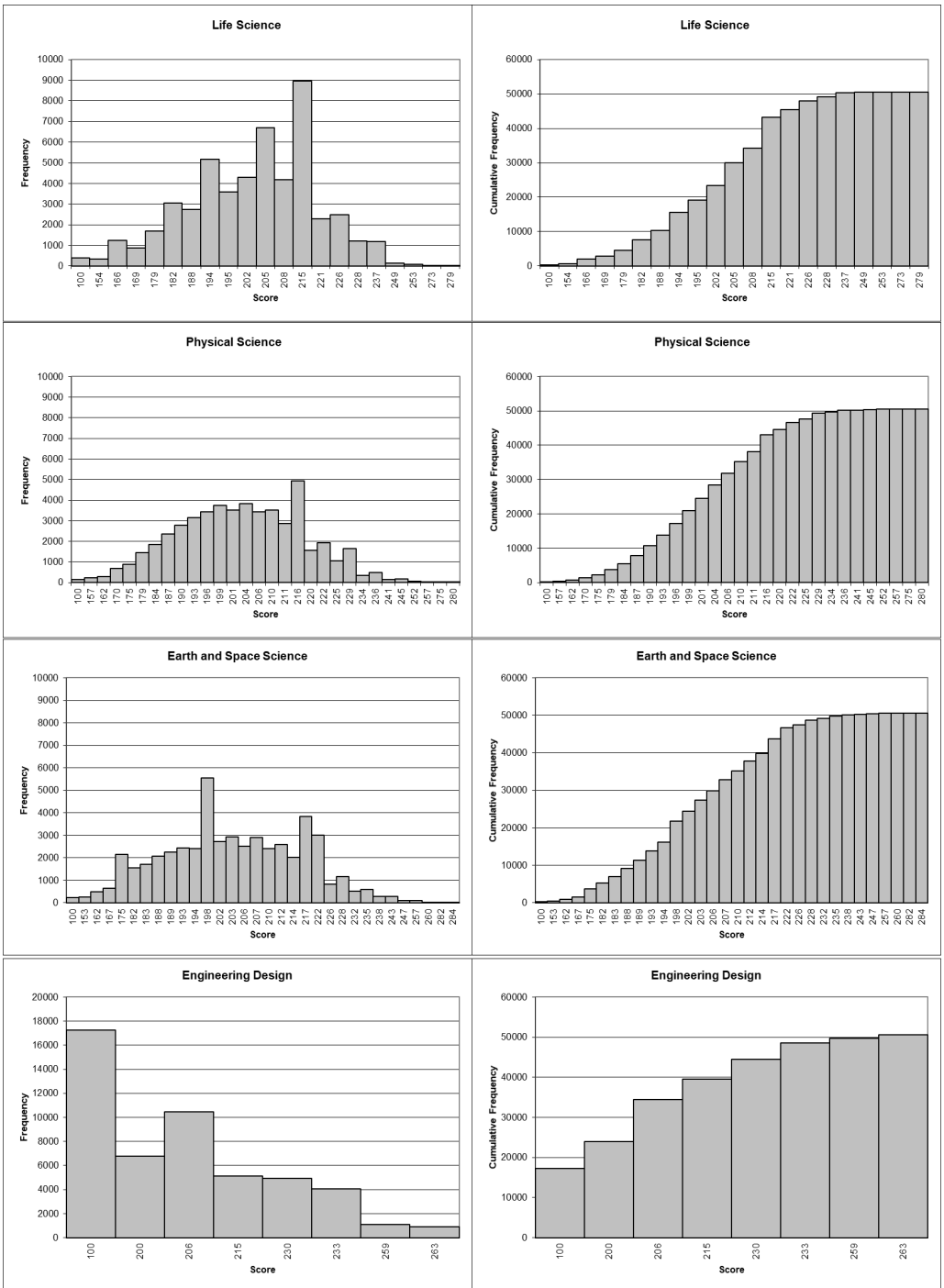


Figure 13. Science Grade 4 Reporting Category Score Frequency and Cumulative Frequency Distributions

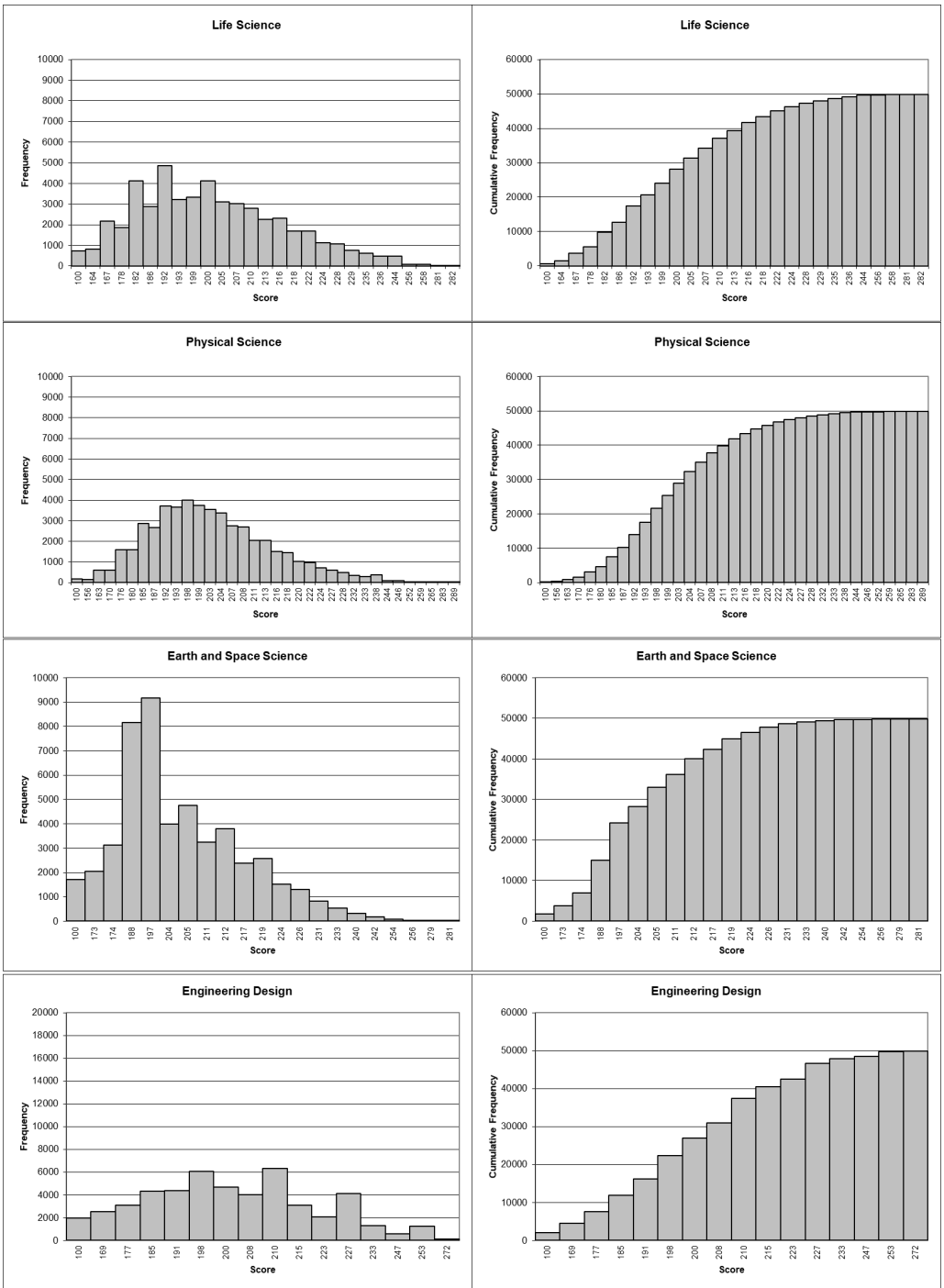


Figure 14. Science Grade 7 Reporting Category Score Frequency and Cumulative Frequency Distributions

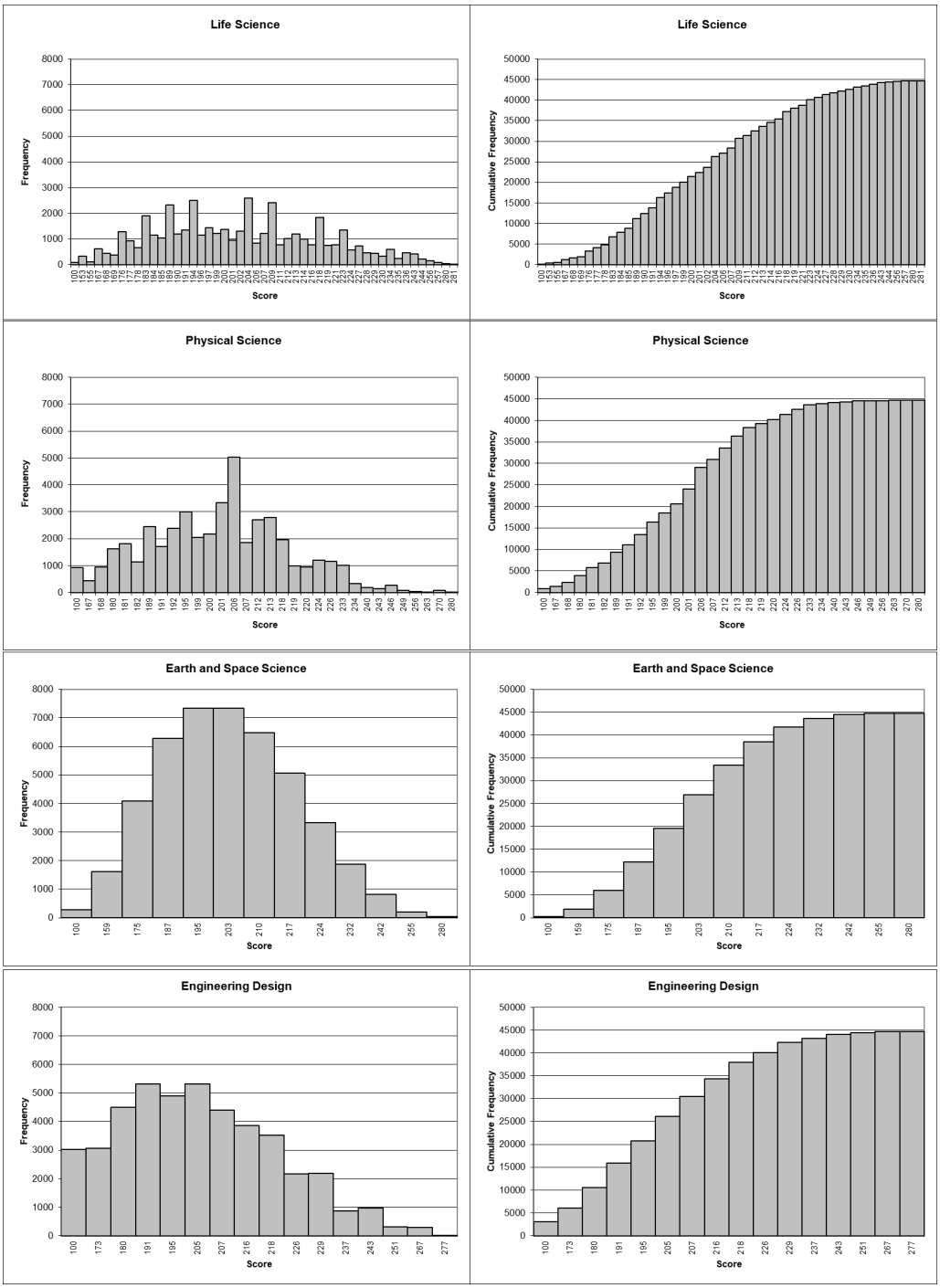


Figure 15. Science Grade 11 Reporting Category Score Frequency and Cumulative Frequency Distributions

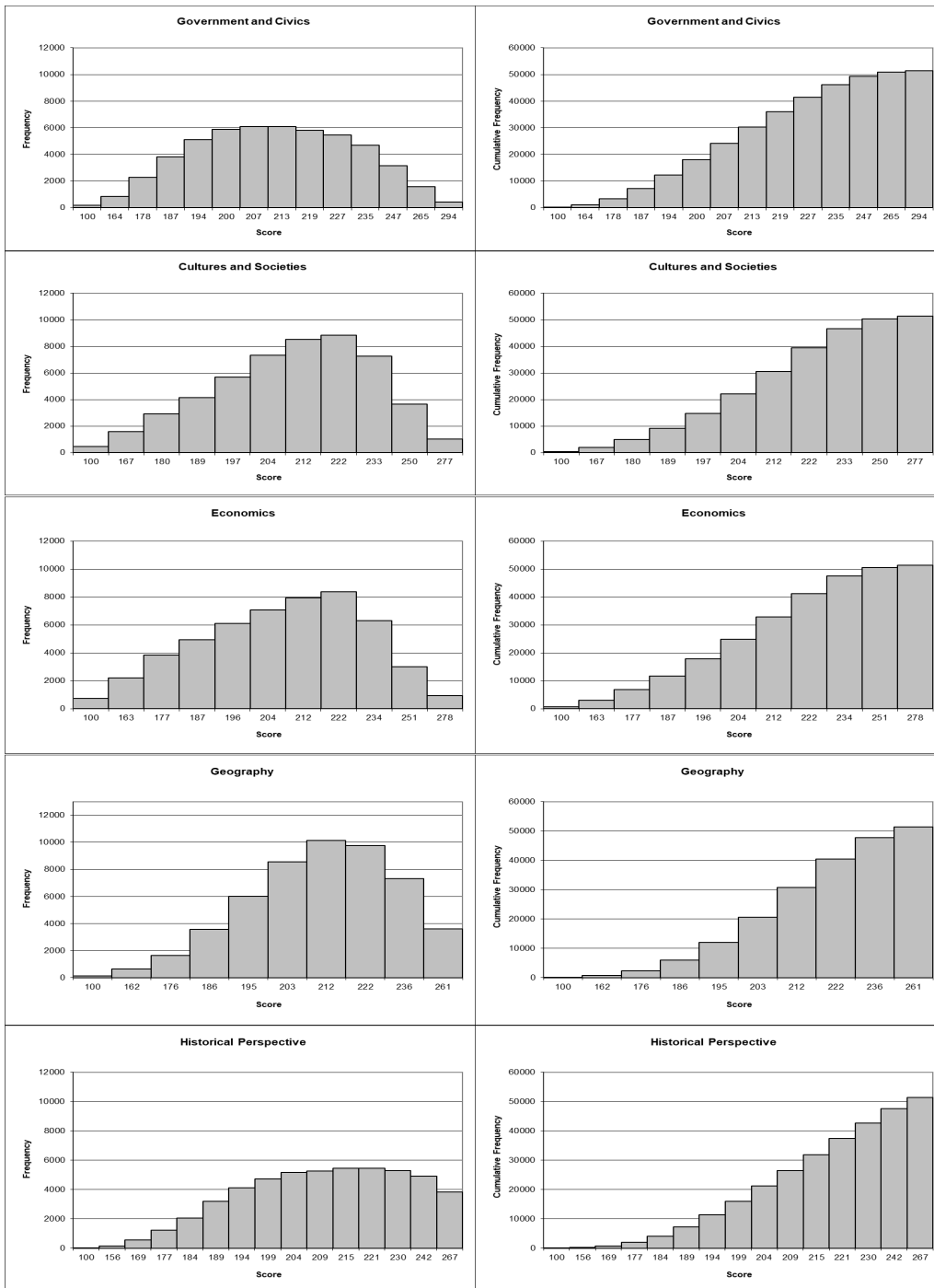


Figure 16. Social Studies Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions

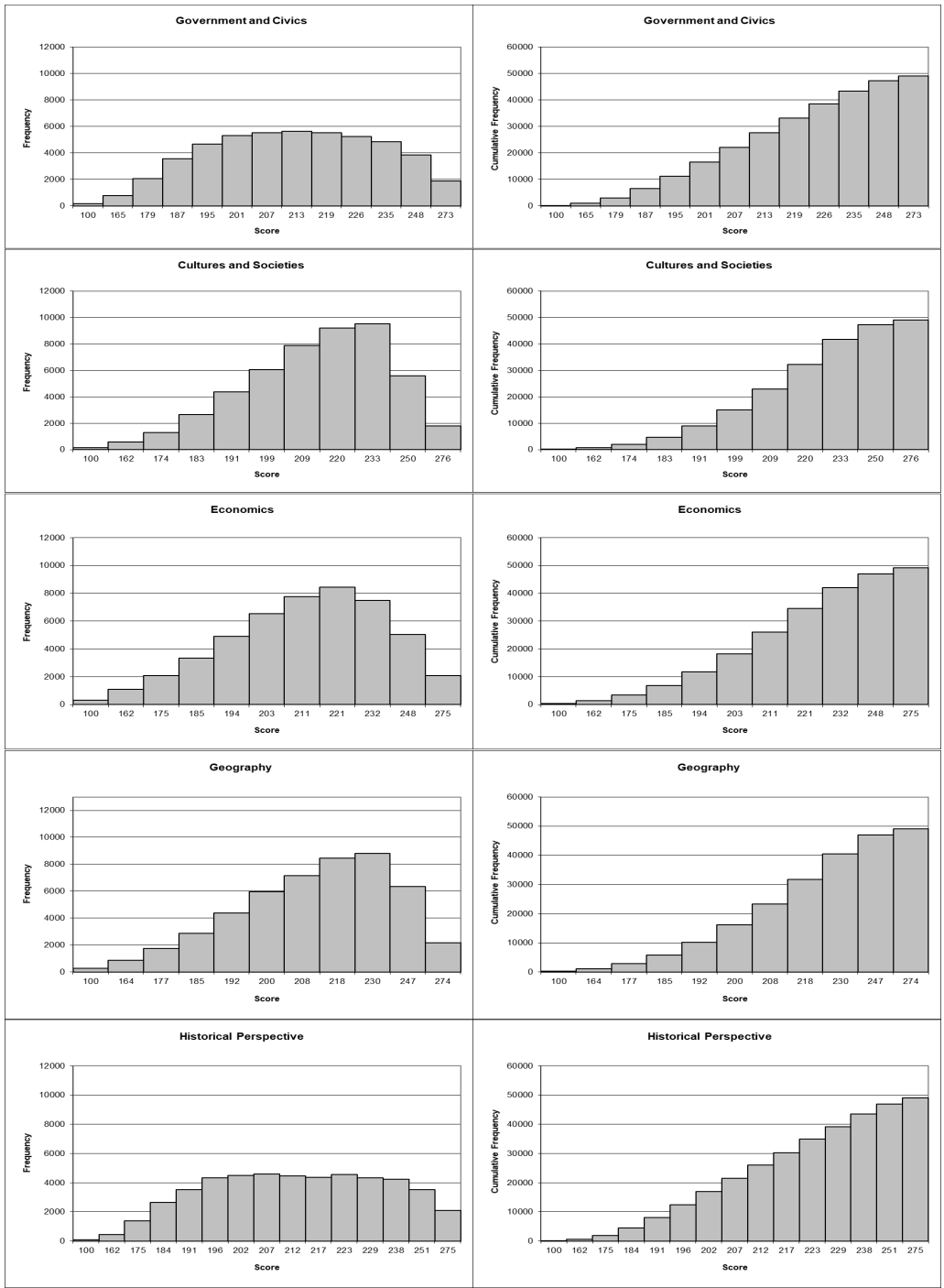


Figure 17. Social Studies Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions

Appendix K. Scale Score Descriptive Statistics⁶⁷

Grade 3 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	48,481	210.21	18.2	198	210	223	287	0.08
Gender	Female	23,455	211.64	18.0	200	213	223	287	0.09
	Male	25,022	208.88	18.3	196	210	220	287	0.08
	Missing	4	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,745	205.04	16.9	194	206	217	287	0.15
	Asian	886	215.36	19.3	202	217	229	287	0.11
	Native Hawaiian/Pacific Islander	66	207.55	14.4	196	209	217	238	-0.12
	Black/African American	5,122	199.39	17.6	187	200	213	287	0.19
	American Indian	52	212.17	17.1	200	217	223	251	-0.10
	White	36,282	212.27	17.8	200	213	223	287	0.09
	Other	2,323	208.35	18.0	196	208	220	287	0.03
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,236	210.26	18.2	198	210	223	287	0.08
	Migrant	245	201.07	15.6	190	200	210	238	0.07
LEP	Non-LEP	45,222	210.75	18.3	198	210	223	287	0.07
	LEP	3,259	202.61	15.9	192	202	213	263	0.02
Economic Disadvantage	Free Lunch	28,952	206.16	17.6	194	206	217	287	0.11
	Reduced-Price Lunch	2,013	211.84	17.5	200	213	223	287	0.11
	Regular Lunch	17,516	216.73	17.5	206	217	229	287	0.05
IEP	Non-IEP	39,558	211.89	17.7	200	213	223	287	0.08
	IEP	8,923	202.79	18.7	189	202	215	287	0.31

Grade 4 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,608	210.46	15.5	200	210	221	294	0.05
Gender	Female	24,812	211.38	15.3	201	212	221	294	0.08
	Male	25,792	209.58	15.5	200	210	221	294	0.03
	Missing	4	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,852	205.86	14.2	196	205	215	258	0.08
	Asian	829	215.33	17.0	203	215	227	294	-0.08
	Native Hawaiian/Pacific Islander	68	205.82	14.3	196	205	215	232	-0.14
	Black/African American	5,381	201.43	14.9	190	201	212	270	0.18
	American Indian	56	210.43	14.8	201	212	222	242	-0.02
	White	38,025	212.23	15.0	201	212	223	294	0.05
	Other	2,393	208.51	15.4	198	208	219	270	0.21
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,350	210.50	15.5	200	210	221	294	0.05

⁶ Alternate K-PREP students are not included.

⁷ Scale score statistics are not reported on n-counts less than 10.

	Migrant	258	203.02	13.4	194	203	212	251	0.22
LEP	Non-LEP	47,509	210.98	15.4	200	212	221	294	0.03
	LEP	3,099	202.40	13.7	194	201	212	294	0.21
Economic Disadvantage	Free Lunch	30,135	206.76	14.7	196	207	217	294	0.08
	Reduced-Price Lunch	2,061	211.77	14.6	201	212	221	258	-0.02
	Regular Lunch	18,412	216.38	14.8	207	217	227	294	-0.02
IEP	Non-IEP	42,267	211.80	14.9	201	212	221	294	0.06
	IEP	8,341	203.67	16.6	192	203	215	294	0.36

Grade 5 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,432	212.24	15.7	201	212	222	294	-0.02
Gender	Female	25,249	213.65	15.4	203	214	225	294	0.01
	Male	26,181	210.88	15.9	201	210	222	294	-0.02
	Missing	2	--	--	--	--	--	--	--
Ethnicity	Hispanic	4,021	207.71	14.8	197	208	216	271	0.11
	Asian	863	217.09	17.8	206	218	230	271	-0.17
	Native Hawaiian/Pacific Islander	81	210.26	17.5	198	210	221	242	-0.13
	Black/African American	5,468	203.40	15.3	193	203	214	259	0.11
	American Indian	64	210.20	14.7	197	212	220	242	0.01
	White	38,597	213.92	15.3	205	214	225	294	-0.03
	Other	2,333	211.27	15.5	201	212	222	294	0.01
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,182	212.28	15.7	201	212	222	294	-0.02
	Migrant	250	204.28	14.4	195	205	214	235	-0.30
LEP	Non-LEP	48,806	212.74	15.6	203	212	222	294	-0.02
	LEP	2,626	202.83	15.1	193	203	212	252	0.16
Economic Disadvantage	Free Lunch	30,337	208.46	15.0	199	208	218	271	-0.01
	Reduced-Price Lunch	2,042	213.10	14.6	203	214	222	271	0.00
	Regular Lunch	19,053	218.17	15.1	208	218	227	294	-0.08
IEP	Non-IEP	43,480	213.89	15.0	205	214	225	294	0.02
	IEP	7,952	203.26	16.5	191	203	214	271	0.26

Grade 6 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,510	212.68	15.4	201	213	224	273	-0.10
Gender	Female	25,324	214.05	15.1	203	214	226	273	-0.11
	Male	26,184	211.35	15.5	200	212	222	273	-0.09
	Missing	2	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,810	208.72	14.8	198	209	219	273	0.06
	Asian	866	219.16	16.4	209	220	231	273	-0.36
	Native Hawaiian/Pacific Islander	74	209.38	15.8	198	210	219	241	0.13
	Black/African American	5,517	203.73	14.9	192	203	214	254	0.16
	American Indian	65	212.09	15.6	201	213	223	254	0.04

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	White	38,861	214.31	14.9	204	216	226	273	-0.15
	Other	2,312	210.88	15.0	200	210	222	273	0.03
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,290	212.71	15.3	201	213	224	273	-0.10
	Migrant	220	205.21	14.7	194	204	216	245	0.19
LEP	Non-LEP	49,291	213.12	15.2	203	214	224	273	-0.12
	LEP	2,219	202.87	14.9	192	201	213	261	0.43
Economic Disadvantage	Free Lunch	29,900	208.87	14.8	198	209	220	273	-0.01
	Reduced-Price Lunch	2,177	213.39	14.7	203	214	224	261	-0.13
	Regular Lunch	19,433	218.45	14.4	209	219	229	273	-0.27
IEP	Non-IEP	44,516	214.27	14.8	204	214	226	273	-0.14
	IEP	6,994	202.54	14.9	192	201	213	273	0.40

Grade 7 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,888	212.13	15.4	201	212	223	300	-0.18
Gender	Female	24,200	214.23	15.0	204	215	225	300	-0.17
	Male	25,687	210.16	15.5	200	211	221	276	-0.16
	Missing	1	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,641	208.11	14.9	198	209	219	256	-0.17
	Asian	875	217.99	16.9	207	219	229	264	-0.76
	Native Hawaiian/Pacific Islander	53	206.94	15.5	199	207	218	242	-0.10
	Black/African American	5,120	203.21	15.2	192	203	214	256	0.10
	American Indian	73	211.25	16.3	198	214	225	242	-0.38
	White	38,080	213.67	14.9	204	214	225	300	-0.18
	Other	2,043	210.72	15.0	201	212	221	264	-0.16
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,681	212.18	15.4	201	212	223	300	-0.18
	Migrant	207	200.65	13.6	192	201	211	231	-0.47
LEP	Non-LEP	47,770	212.57	15.2	203	214	223	300	-0.17
	LEP	2,118	202.30	16.0	190	201	214	264	0.05
Economic Disadvantage	Free Lunch	28,142	207.96	14.8	198	209	219	276	-0.08
	Reduced-Price Lunch	2,087	212.76	14.4	203	212	223	264	-0.09
	Regular Lunch	19,659	218.04	14.3	209	219	227	300	-0.36
IEP	Non-IEP	43,832	213.86	14.6	204	214	225	300	-0.18
	IEP	6,056	199.61	15.0	188	198	209	264	0.34

Grade 8 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,213	214.04	15.8	204	215	225	300	-0.19
Gender	Female	24,010	216.82	15.3	207	218	227	300	-0.23
	Male	25,203	211.38	15.8	201	212	223	300	-0.14
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,301	209.67	15.4	199	210	220	258	-0.30
	Asian	884	220.23	17.0	210	221	233	277	-0.45
	Native Hawaiian/Pacific Islander	68	211.46	17.0	198	210	223	258	0.17
	Black/African American	5,203	204.83	16.0	193	204	216	300	0.08
	American Indian	57	213.71	15.4	203	216	226	241	-0.39
	White	37,826	215.62	15.2	205	216	227	300	-0.20
	Other	1,870	212.39	15.0	202	213	223	265	-0.01
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,031	214.08	15.7	204	215	225	300	-0.18
	Migrant	182	202.13	18.2	191	203	215	241	-1.84
LEP	Non-LEP	47,156	214.52	15.6	204	215	225	300	-0.18
	LEP	2,057	202.88	16.0	191	202	215	258	-0.06
Economic Disadvantage	Free Lunch	27,093	209.71	15.2	199	210	221	300	-0.11
	Reduced-Price Lunch	1,995	214.92	14.9	205	216	225	265	-0.20
	Regular Lunch	20,125	219.76	14.7	210	221	229	300	-0.33
IEP	Non-IEP	43,700	215.77	15.0	205	216	227	300	-0.20
	IEP	5,513	200.30	14.6	189	199	210	258	0.27

Grade 3 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	48,481	209.74	20.7	195	209	223	296	0.43
Gender	Female	23,455	209.12	20.1	195	207	223	296	0.44
	Male	25,022	210.33	21.3	195	209	223	296	0.41
	Missing	4	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,745	204.13	20.2	190	203	216	296	0.17
	Asian	886	222.14	25.6	204	221	238	296	0.38
	Native Hawaiian/Pacific Islander	66	206.14	17.8	195	201	218	249	0.51
	Black/African American	5,122	198.51	18.6	185	196	211	296	0.45
	American Indian	52	213.27	19.9	200	211	224	271	0.63
	White	36,282	211.74	20.3	198	211	225	296	0.45
	Other	2,323	207.72	19.6	193	206	221	296	0.45
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,236	209.79	20.7	195	209	223	296	0.43
	Migrant	245	200.32	19.1	189	199	213	249	-0.41
LEP	Non-LEP	45,222	210.28	20.7	196	209	223	296	0.47
	LEP	3,259	202.33	20.6	189	201	214	296	-0.01
Economic Disadvantage	Free Lunch	28,952	204.72	19.1	192	204	216	296	0.42
	Reduced-Price Lunch	2,013	211.65	20.1	198	211	223	296	0.55

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Regular Lunch	17,516	217.82	20.9	204	216	231	296	0.35
IEP	Non-IEP	39,558	211.79	20.3	198	211	225	296	0.44
	IEP	8,923	200.66	20.4	185	198	213	296	0.66

Grade 4 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,608	209.76	18.9	197	209	222	295	0.50
Gender	Female	24,812	209.42	18.2	197	207	221	295	0.58
	Male	25,792	210.08	19.5	195	209	222	295	0.43
	Missing	4	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,852	204.67	17.2	193	203	215	295	0.17
	Asian	829	222.89	24.5	206	224	238	295	-0.04
	Native Hawaiian/Pacific Islander	68	204.99	19.2	193	202	216	253	-0.40
	Black/African American	5,381	199.12	16.3	189	197	209	295	0.50
	American Indian	56	211.09	22.7	197	205	223	295	1.26
	White	38,025	211.69	18.6	198	210	224	295	0.52
	Other	2,393	206.78	17.5	193	204	218	272	0.60
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,350	209.80	18.9	197	209	222	295	0.51
	Migrant	258	200.90	18.7	192	200	212	253	-0.62
LEP	Non-LEP	47,509	210.27	18.8	197	209	222	295	0.54
	LEP	3,099	201.96	17.8	190	200	212	272	-0.07
Economic Disadvantage	Free Lunch	30,135	205.00	16.9	193	203	216	295	0.47
	Reduced-Price Lunch	2,061	211.28	18.3	198	210	222	295	0.56
	Regular Lunch	18,412	217.38	19.4	204	216	229	295	0.38
IEP	Non-IEP	42,267	211.39	18.6	198	210	224	295	0.49
	IEP	8,341	201.48	18.2	189	198	212	295	0.81

Grade 5 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,432	211.46	19.5	198	210	225	300	0.37
Gender	Female	25,249	211.32	18.7	198	210	223	300	0.37
	Male	26,181	211.61	20.3	196	210	225	300	0.37
	Missing	2	--	--	--	--	--	--	--
Ethnicity	Hispanic	4,021	206.82	18.2	194	205	218	278	-0.11
	Asian	863	225.86	23.6	210	225	240	300	0.09
	Native Hawaiian/Pacific Islander	81	209.90	22.1	193	208	225	266	0.27
	Black/African American	5,468	200.32	16.8	188	198	212	278	0.49
	American Indian	64	206.47	17.9	196	205	218	254	0.29
	White	38,597	213.35	19.3	199	212	227	300	0.37
	Other	2,333	209.28	18.5	196	208	221	300	0.50
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,182	211.51	19.5	198	210	225	300	0.38

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Migrant	250	201.91	20.3	189	201	215	259	-0.93
LEP	Non-LEP	48,806	211.92	19.4	198	212	225	300	0.40
	LEP	2,626	202.92	19.5	191	201	215	300	0.09
Economic Disadvantage	Free Lunch	30,337	206.44	17.7	193	205	218	300	0.34
	Reduced-Price Lunch	2,042	212.55	18.5	199	212	225	300	0.47
	Regular Lunch	19,053	219.35	19.8	205	218	233	300	0.26
IEP	Non-IEP	43,480	213.41	19.2	199	212	225	300	0.35
	IEP	7,952	200.81	18.0	188	198	212	278	0.71

Grade 6 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,510	209.93	18.1	197	207	222	300	0.56
Gender	Female	25,324	210.84	17.8	197	209	222	300	0.55
	Male	26,184	209.06	18.3	195	207	220	300	0.57
	Missing	2	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,810	204.86	16.5	194	203	214	279	0.45
	Asian	866	221.56	22.2	206	220	236	300	0.21
	Native Hawaiian/Pacific Islander	74	204.14	15.7	192	200	213	254	1.16
	Black/African American	5,517	199.24	14.8	189	197	207	267	0.57
	American Indian	65	210.25	22.0	193	207	223	267	0.52
	White	38,861	211.89	17.9	199	210	223	300	0.54
	Other	2,312	206.82	17.0	194	204	217	300	0.77
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,290	209.98	18.1	197	207	222	300	0.57
	Migrant	220	200.01	18.5	191	200	211	259	-0.89
LEP	Non-LEP	49,291	210.39	18.0	197	209	222	300	0.57
	LEP	2,219	199.85	17.4	189	197	209	300	0.61
Economic Disadvantage	Free Lunch	29,900	205.18	16.2	194	203	216	300	0.58
	Reduced-Price Lunch	2,177	210.45	17.1	197	209	222	279	0.47
	Regular Lunch	19,433	217.19	18.5	204	216	230	300	0.42
IEP	Non-IEP	44,516	211.75	17.7	199	210	223	300	0.54
	IEP	6,994	198.40	15.9	187	195	206	279	1.10

Grade 7 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,888	210.40	17.7	198	209	221	300	0.53
Gender	Female	24,200	211.09	17.2	199	209	221	300	0.56
	Male	25,687	209.75	18.2	196	208	221	300	0.52
	Missing	1	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,641	205.46	16.0	194	203	214	300	0.30
	Asian	875	223.76	23.1	208	223	240	300	0.27
	Native Hawaiian/Pacific Islander	53	205.13	22.4	194	205	216	250	-1.65
	Black/African American	5,120	199.93	14.8	189	198	209	300	0.75

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	American Indian	73	212.32	18.8	199	210	220	267	0.57
	White	38,080	212.12	17.5	199	210	223	300	0.51
	Other	2,043	207.61	16.6	194	206	219	279	0.56
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,681	210.45	17.7	198	209	221	300	0.53
	Migrant	207	198.81	13.6	189	199	206	246	-0.20
LEP	Non-LEP	47,770	210.79	17.6	198	209	221	300	0.54
	LEP	2,118	201.66	18.2	189	199	210	300	0.64
Economic Disadvantage	Free Lunch	28,142	205.27	15.7	194	203	214	300	0.58
	Reduced-Price Lunch	2,087	210.93	16.7	199	209	221	300	0.65
	Regular Lunch	19,659	217.68	18.0	205	217	230	300	0.35
IEP	Non-IEP	43,832	212.09	17.5	199	210	223	300	0.51
	IEP	6,056	198.17	14.5	189	196	205	279	1.02

Grade 8 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,213	209.03	17.9	196	207	220	298	0.53
Gender	Female	24,010	210.15	17.4	198	209	221	298	0.48
	Male	25,203	207.96	18.4	195	206	220	298	0.59
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,301	204.09	17.1	193	202	214	275	0.12
	Asian	884	222.77	23.4	207	221	238	298	0.12
	Native Hawaiian/Pacific Islander	68	205.12	17.6	194	203	217	244	-0.58
	Black/African American	5,203	198.61	15.1	188	196	207	275	0.72
	American Indian	57	209.61	17.5	198	211	222	256	0.37
	White	37,826	210.70	17.6	198	209	221	298	0.53
	Other	1,870	206.43	17.0	195	205	217	298	0.71
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,031	209.06	17.9	196	207	220	298	0.54
	Migrant	182	199.20	18.1	191	200	211	241	-1.45
LEP	Non-LEP	47,156	209.45	17.8	196	207	220	298	0.57
	LEP	2,057	199.27	18.4	188	198	209	298	0.15
Economic Disadvantage	Free Lunch	27,093	203.78	15.9	193	202	214	298	0.48
	Reduced-Price Lunch	1,995	209.69	17.2	198	209	220	298	0.68
	Regular Lunch	20,125	216.02	18.2	203	214	228	298	0.44
IEP	Non-IEP	43,700	210.71	17.6	198	209	221	298	0.52
	IEP	5,513	195.66	14.4	186	193	203	275	0.98

Grade 4 Science

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,608	203.05	12.7	194	203	212	264	-0.33
Gender	Female	24,812	203.21	12.3	195	203	212	252	-0.28
	Male	25,792	202.90	13.0	194	203	212	264	-0.37

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Missing	4	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,852	199.20	12.6	192	200	207	244	-0.84
	Asian	829	207.19	15.8	198	208	218	247	-1.63
	Native Hawaiian/Pacific Islander	68	199.85	13.2	192	202	207	226	-0.78
	Black/African American	5,381	194.81	12.4	187	194	203	241	-0.42
	American Indian	56	201.95	12.4	197	204	210	228	-0.59
	White	38,025	204.63	12.1	197	205	213	264	-0.18
	Other	2,393	201.39	12.5	194	202	210	238	-0.41
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,350	203.09	12.6	195	203	212	264	-0.31
	Migrant	258	195.82	15.8	189	197	205	224	-2.29
LEP	Non-LEP	47,509	203.49	12.5	195	204	212	264	-0.21
	LEP	3,099	196.43	13.3	189	197	205	244	-1.63
Economic Disadvantage	Free Lunch	30,135	200.17	12.2	192	201	208	252	-0.26
	Reduced-Price Lunch	2,061	204.40	12.0	197	205	212	238	-0.34
	Regular Lunch	18,412	207.62	12.1	200	208	215	264	-0.58
IEP	Non-IEP	42,267	203.87	12.4	196	204	212	264	-0.40
	IEP	8,341	198.89	13.4	189	199	208	252	0.05

Grade 7 Science

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,888	201.24	12.7	192	200	210	260	0.01
Gender	Female	24,200	201.61	12.3	194	200	210	255	0.10
	Male	25,687	200.89	13.1	192	200	210	260	-0.05
	Missing	1	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,641	198.14	12.1	190	198	205	247	-0.27
	Asian	875	208.37	15.1	198	210	219	255	-0.58
	Native Hawaiian/Pacific Islander	53	195.38	13.4	190	196	200	225	-0.80
	Black/African American	5,120	194.28	11.5	188	194	202	248	-0.23
	American Indian	73	202.73	13.4	194	202	212	240	0.31
	White	38,080	202.38	12.5	194	202	211	260	0.04
	Other	2,043	200.01	12.2	192	199	207	245	0.29
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,681	201.27	12.7	192	200	210	260	0.01
	Migrant	207	193.94	9.74	188	194	200	216	-0.80
LEP	Non-LEP	47,770	201.51	12.6	192	200	210	260	0.03
	LEP	2,118	195.08	13.3	188	194	202	242	-0.15
Economic Disadvantage	Free Lunch	28,142	197.91	11.8	190	197	205	251	-0.09
	Reduced-Price Lunch	2,087	201.94	12.0	194	202	210	251	-0.18
	Regular Lunch	19,659	205.93	12.6	197	205	215	260	-0.01
IEP	Non-IEP	43,832	202.32	12.5	194	202	210	260	0.01
	IEP	6,056	193.41	11.4	185	192	200	245	-0.06

Grade 11 Science

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	44,827	202.13	13.9	192	202	212	256	0.10
Gender	Female	22,069	203.42	13.4	194	203	213	256	0.08
	Male	22,756	200.87	14.3	190	200	211	255	0.15
	Missing	2	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,750	198.15	13.2	189	197	207	248	0.15
	Asian	906	207.21	16.4	194	207	221	248	-0.04
	Native Hawaiian/Pacific Islander	53	200.68	15.1	192	200	208	244	0.56
	Black/African American	4,647	193.97	12.2	185	193	202	239	0.13
	American Indian	57	201.07	13.2	193	198	211	230	0.26
	White	35,140	203.46	13.7	194	203	213	256	0.06
	Other	1,266	200.22	13.5	190	200	209	248	0.26
	Missing	8	--	--	--	--	--	--	--
Migrant	Non-Migrant	44,701	202.16	13.9	192	202	212	256	0.11
	Migrant	126	190.74	13.8	183	189	201	215	-2.20
LEP	Non-LEP	43,366	202.57	13.8	192	202	212	256	0.10
	LEP	1,461	189.16	11.1	183	188	196	235	-0.05
Economic Disadvantage	Free Lunch	21,910	198.28	12.9	189	198	207	251	0.18
	Reduced-Price Lunch	1,937	202.62	13.0	193	202	212	247	0.04
	Regular Lunch	20,980	206.08	13.9	196	207	216	256	-0.06
IEP	Non-IEP	41,036	203.20	13.7	193	203	212	256	0.07
	IEP	3,791	190.56	11.1	183	190	197	242	0.49

Grade 5 Social Studies

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,432	211.65	17.3	199	211	223	300	0.35
Gender	Female	25,249	211.22	16.8	199	210	221	300	0.45
	Male	26,181	212.07	17.7	199	211	225	300	0.26
	Missing	2	--	--	--	--	--	--	--
Ethnicity	Hispanic	4,021	206.48	15.7	195	206	216	283	0.27
	Asian	863	220.05	22.1	205	221	234	300	0.21
	Native Hawaiian/Pacific Islander	81	211.58	19.2	197	210	224	269	0.36
	Black/African American	5,468	201.04	15.6	189	199	211	300	0.59
	American Indian	64	208.06	15.8	199	207	217	246	0.22
	White	38,597	213.64	16.9	202	213	225	300	0.34
	Other	2,333	209.51	16.3	198	209	219	269	0.33
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,182	211.69	17.3	199	211	223	300	0.35
	Migrant	250	203.45	14.8	192	203	213	250	0.24
LEP	Non-LEP	48,806	212.15	17.2	200	211	223	300	0.35
	LEP	2,626	202.31	16.5	191	200	211	300	0.62
Economic Disadvantage	Free Lunch	30,337	207.33	16.0	196	206	218	300	0.35
	Reduced-Price Lunch	2,042	212.32	16.5	200	211	223	300	0.27
	Regular Lunch	19,053	218.47	17.1	207	218	229	300	0.31

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
IEP	Non-IEP	43,480	213.47	16.7	202	213	225	300	0.37
	IEP	7,952	201.72	16.8	189	199	213	283	0.68

Grade 8 Social Studies

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,213	214.28	18.7	201	214	228	300	0.25
Gender	Female	24,010	214.72	18.3	201	214	228	300	0.34
	Male	25,203	213.86	19.1	200	214	228	300	0.19
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,301	208.82	17.4	197	208	220	300	0.38
	Asian	884	224.63	22.2	210	226	239	300	-0.18
	Native Hawaiian/Pacific Islander	68	209.73	19.5	197	205	224	266	0.48
	Black/African American	5,203	203.04	17.2	191	201	214	300	0.42
	American Indian	57	213.96	19.4	196	217	231	249	-0.18
	White	37,826	216.19	18.3	202	216	228	300	0.24
	Other	1,870	211.55	17.7	198	210	224	278	0.32
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,031	214.32	18.7	201	214	228	300	0.25
	Migrant	182	202.53	15.9	191	201	214	249	0.30
LEP	Non-LEP	47,156	214.80	18.6	201	214	228	300	0.26
	LEP	2,057	202.09	17.9	189	200	214	278	0.41
Economic Disadvantage	Free Lunch	27,093	208.76	17.3	195	208	220	300	0.30
	Reduced-Price Lunch	1,995	215.59	17.6	202	216	228	278	0.18
	Regular Lunch	20,125	221.56	18.2	210	222	234	300	0.17
IEP	Non-IEP	43,700	216.19	18.2	202	216	228	300	0.26
	IEP	5,513	199.10	16.1	188	197	208	278	0.69

Grade 5 On-Demand Writing⁸

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,432	223.38	37.6	212	215	242	300	-0.24
Gender	Female	25,249	231.18	36.1	212	238	264	300	-0.34
	Male	26,181	215.85	37.6	185	215	242	300	-0.14
	Missing	2	--	--	--	--	--	--	--
Ethnicity	Hispanic	4,021	216.93	35.7	185	215	242	300	-0.16
	Asian	863	237.05	36.5	215	242	267	300	-0.54
	Native Hawaiian/Pacific Islander	81	221.76	41.1	199	215	253	300	-0.24
	Black/African American	5,468	204.29	37.2	185	212	238	300	0.06
	American Indian	64	216.67	38.7	185	215	242	300	-0.24
	White	38,597	226.70	37.0	212	238	264	300	-0.29
	Other	2,333	219.52	37.3	185	215	242	300	-0.18

⁸ On Demand Writing is reported on a scale score metric of 100-300 with 'Proficient' at 235.

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,182	223.45	37.6	212	215	242	300	-0.24
	Migrant	250	208.03	40.8	185	212	242	300	-0.10
LEP	Non-LEP	48,806	224.20	37.5	212	215	242	300	-0.26
	LEP	2,626	207.90	36.6	185	212	238	300	0.03
Economic Disadvantage	Free Lunch	30,337	215.38	37.2	185	215	242	300	-0.14
	Reduced-Price Lunch	2,042	224.68	35.9	212	215	242	300	-0.25
	Regular Lunch	19,053	235.96	35.0	215	242	267	300	-0.40
IEP	Non-IEP	43,480	228.14	35.4	212	238	264	300	-0.25
	IEP	7,952	197.34	39.1	156	185	215	300	0.29

Grade 8 On-Demand Writing

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,213	219.85	33.8	206	226	247	287	-0.52
Gender	Female	24,010	229.47	30.4	206	228	250	287	-0.60
	Male	25,203	210.68	34.4	187	208	228	287	-0.40
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,301	213.54	33.0	206	208	228	287	-0.44
	Asian	884	233.82	33.5	208	247	250	287	-0.84
	Native Hawaiian/Pacific Islander	68	211.75	38.2	187	226	228	287	-0.39
	Black/African American	5,203	201.46	35.0	185	206	226	287	-0.23
	American Indian	57	219.52	37.9	197	226	250	287	-0.29
	White	37,826	222.75	32.8	206	226	247	287	-0.57
	Other	1,870	216.84	33.0	206	226	247	287	-0.46
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,031	219.91	33.8	206	226	247	287	-0.52
	Migrant	182	203.75	36.9	185	208	228	271	-0.60
LEP	Non-LEP	47,156	220.63	33.5	206	226	247	287	-0.53
	LEP	2,057	201.67	36.0	185	206	226	287	-0.28
Economic Disadvantage	Free Lunch	27,093	212.21	34.0	187	208	228	287	-0.44
	Reduced-Price Lunch	1,995	220.52	31.8	206	226	247	287	-0.52
	Regular Lunch	20,125	230.03	31.0	208	228	250	287	-0.64
IEP	Non-IEP	43,700	224.01	31.4	206	226	247	287	-0.54
	IEP	5,513	186.70	33.8	151	185	208	287	0.09

Grade 11 On-Demand Writing

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	44,827	238.14	37.4	213	240	276	296	-0.62
Gender	Female	22,069	246.15	33.9	220	256	276	296	-0.64
	Male	22,756	230.35	38.9	200	234	260	296	-0.53

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Missing	2	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,750	224.68	37.8	200	220	256	296	-0.33
	Asian	906	244.42	40.5	213	256	276	296	-0.63
	Native Hawaiian/Pacific Islander	53	232.04	34.9	213	234	260	294	-0.29
	Black/African American	4,647	217.68	36.7	192	213	240	296	-0.25
	American Indian	57	231.45	38.7	213	234	258	294	-0.32
	White	35,140	241.90	36.2	220	240	276	296	-0.73
	Other	1,266	233.57	37.1	213	234	260	296	-0.56
	Missing	8	--	--	--	--	--	--	--
Migrant	Non-Migrant	44,701	238.24	37.3	213	240	276	296	-0.62
	Migrant	126	201.50	39.7	169	200	234	296	-0.27
LEP	Non-LEP	43,366	239.46	36.8	213	240	276	296	-0.65
	LEP	1,461	198.50	33.5	177	192	220	296	0.07
Economic Disadvantage	Free Lunch	21,910	228.87	37.3	200	234	256	296	-0.44
	Reduced-Price Lunch	1,937	239.19	35.6	213	240	260	296	-0.61
	Regular Lunch	20,980	247.67	35.2	234	256	276	296	-0.89
IEP	Non-IEP	41,036	241.57	35.9	220	240	276	296	-0.72
	IEP	3,791	200.68	32.3	177	200	220	296	0.09

Appendix L. Performance Level Rates⁹

Grade 3 Reading

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	48,898	10.9%	12.4%	10.8%	13%	31.2%	21.6%
Gender	Female	23,585	9.2%	11.7%	10.4%	13%	32%	23.7%
	Male	25,309	12.5%	13.2%	11.1%	13.1%	30.5%	19.6%
Ethnicity	Hispanic	3,713	15.1%	17.4%	12.6%	15.3%	27%	12.6%
	Asian	879	6.8%	10.9%	8.3%	10.8%	30.9%	32.2%
	Native Hawaiian/Pacific Islander	66	10.6%	16.7%	7.6%	15.2%	40.9%	9.1%
	Black/African American	5,114	27%	18.3%	12.7%	12.3%	21.7%	8%
	American Indian	52	5.8%	13.5%	13.5%	9.6%	38.5%	19.2%
	White	36,278	8.3%	11.1%	10.1%	12.9%	33%	24.6%
	Other	2,321	12.7%	14%	11.7%	12.7%	30.3%	18.7%
	Missing	475	6.3%	9.1%	23.2%	20.2%	34.5%	6.7%
Migrant	Non-Migrant	48,660	10.9%	12.4%	10.8%	13%	31.3%	21.7%
	Migrant	238	22.3%	18.9%	11.8%	15.5%	24.4%	7.1%
LEP	Non-LEP	45,686	10.5%	12%	10.5%	12.8%	31.7%	22.5%
	LEP	3,212	17.4%	19.2%	14.3%	15.6%	24.6%	8.8%
Economic Disadvantage	Free Lunch	28,924	15%	15.3%	12.2%	13.8%	28.8%	14.9%
	Reduced-Price Lunch	2,010	8.3%	11.1%	10.7%	14.2%	32.4%	23.3%
	Regular Lunch	17,964	4.8%	7.9%	8.4%	11.6%	35.1%	32.2%
IEP	Non-IEP	39,978	8.5%	11.2%	10.4%	13.2%	33.1%	23.5%
	IEP	8,920	22%	17.9%	12.2%	12%	22.8%	13%

Grade 4 Reading

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	51,115	8.1%	11%	11.1%	16.8%	37.6%	15.4%
Gender	Female	24,985	6.9%	10.3%	10.9%	16.6%	38.8%	16.5%
	Male	26,126	9.2%	11.7%	11.2%	16.9%	36.6%	14.4%
Ethnicity	Hispanic	3,826	11.5%	14.8%	14.7%	18.9%	32%	8.1%
	Asian	821	6%	8%	9.6%	11.3%	38%	27%
	Native Hawaiian/Pacific Islander	67	11.9%	14.9%	13.4%	17.9%	31.3%	10.4%
	Black/African American	5,371	20.4%	18.6%	15.1%	16.5%	24.1%	5.4%
	American Indian	56	5.4%	14.3%	10.7%	16.1%	33.9%	19.6%
	White	38,020	6%	9.6%	9.9%	16.5%	40.4%	17.6%
	Other	2,393	9.9%	12.7%	12.1%	19%	33.4%	12.9%
	Missing	561	3.7%	7.5%	20.7%	24.1%	34.8%	9.3%

⁹ Alternate K-PREP students are included.

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
Migrant	Non-Migrant	50,865	8%	11%	11%	16.7%	37.7%	15.5%
	Migrant	250	16%	14.4%	14.8%	24%	26.8%	4%
LEP	Non-LEP	48,060	7.6%	10.5%	10.7%	16.6%	38.4%	16.1%
	LEP	3,055	15.8%	18.4%	16.6%	18.7%	26.1%	4.3%
Economic Disadvantage	Free Lunch	30,109	11.2%	14.2%	13.1%	18.4%	33.6%	9.5%
	Reduced-Price Lunch	2,060	6.1%	9.4%	10.7%	16%	42%	15.9%
	Regular Lunch	18,946	3.3%	6.1%	7.9%	14.3%	43.6%	24.8%
IEP	Non-IEP	42,775	5.9%	9.8%	10.7%	17.1%	40%	16.5%
	IEP	8,340	19.3%	17.5%	12.8%	15.1%	25.6%	9.7%

Grade 5 Reading

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	51,933	10.5%	7.9%	10.7%	13%	38.8%	19.2%
Gender	Female	25,407	8.4%	6.9%	10%	13.2%	40.4%	21%
	Male	26,524	12.5%	8.8%	11.3%	12.8%	37.2%	17.5%
Ethnicity	Hispanic	3,995	14.5%	10.8%	14.3%	14.8%	34.4%	11.1%
	Asian	856	8.1%	6%	7.9%	10.6%	35%	32.4%
	Native Hawaiian/Pacific Islander	80	15%	10%	13.8%	6.3%	33.8%	21.3%
	Black/African American	5,465	24.7%	12.2%	14.6%	14.1%	26.7%	7.7%
	American Indian	64	14.1%	12.5%	9.4%	12.5%	34.4%	17.2%
	White	38,586	8.1%	6.9%	9.6%	12.6%	41%	21.7%
	Other	2,333	11.1%	8.4%	10.5%	13.8%	39.4%	16.6%
	Missing	554	5.8%	10.3%	22.9%	19.9%	35.9%	5.2%
Migrant	Non-Migrant	51,689	10.4%	7.9%	10.6%	13%	38.8%	19.3%
	Migrant	244	20.1%	10.7%	14.8%	16%	31.6%	7%
LEP	Non-LEP	49,349	9.8%	7.5%	10.4%	13%	39.5%	19.8%
	LEP	2,584	23.3%	15.4%	15.6%	14.4%	24.3%	7%
Economic Disadvantage	Free Lunch	30,309	14.4%	9.9%	12.8%	14.5%	36.2%	12.2%
	Reduced-Price Lunch	2,040	8.6%	7.3%	9.5%	13.3%	43%	18.3%
	Regular Lunch	19,584	4.6%	4.8%	7.5%	10.7%	42.3%	30.1%
IEP	Non-IEP	43,982	7.4%	7%	10.2%	13.2%	41.3%	20.9%
	IEP	7,951	27.4%	12.5%	13.2%	12.1%	24.9%	9.8%

Grade 6 Reading

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	52,078	9.1%	11.5%	8.3%	12%	39.3%	19.8%
Gender	Female	25,512	7.2%	10.6%	7.8%	12%	40.4%	22.2%
	Male	26,564	10.9%	12.5%	8.8%	12.1%	38.2%	17.5%
Ethnicity	Hispanic	3,795	12.8%	15.4%	10.7%	13%	35.5%	12.8%

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
	Asian	859	5.4%	7.6%	5%	8.6%	36.4%	37%
	Native Hawaiian/Pacific Islander	74	17.6%	8.1%	5.4%	17.6%	37.8%	13.5%
	Black/African American	5,512	21.8%	20.2%	9.2%	13.7%	28%	7.1%
	American Indian	64	10.9%	12.5%	9.4%	1.6%	48.4%	17.2%
	White	38,843	6.9%	10%	7.7%	11.6%	41.5%	22.3%
	Other	2,311	10.4%	12.5%	9.9%	13.8%	36.9%	16.6%
	Missing	620	10.8%	11.6%	19%	17.6%	33.9%	7.1%
Migrant	Non-Migrant	51,861	9%	11.5%	8.3%	12%	39.3%	19.8%
	Migrant	217	17.1%	21.7%	10.6%	13.4%	29.5%	7.8%
LEP	Non-LEP	49,880	8.4%	11.1%	8.1%	12.1%	40%	20.3%
	LEP	2,198	23.9%	21.4%	11.6%	11.8%	23.5%	7.9%
Economic Disadvantage	Free Lunch	29,868	12.5%	14.9%	9.9%	13.5%	36.7%	12.6%
	Reduced-Price Lunch	2,176	7.1%	10.6%	9.2%	11.3%	41.8%	20.1%
	Regular Lunch	20,034	4.1%	6.7%	5.8%	10%	42.9%	30.5%
IEP	Non-IEP	45,089	6.7%	10.1%	7.9%	12%	41.5%	21.8%
	IEP	6,989	24.7%	20.8%	10.4%	12.5%	24.8%	6.7%

Grade 7 Reading

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	50,435	9.7%	10.4%	8.3%	14%	38.6%	19%
Gender	Female	24,393	7.2%	8.8%	7.7%	13.6%	40.2%	22.5%
	Male	26,042	12.1%	11.8%	8.9%	14.5%	37%	15.7%
Ethnicity	Hispanic	3,621	13.2%	14.1%	10%	16.1%	35%	11.5%
	Asian	870	7.6%	5.9%	4.9%	10%	36.2%	35.4%
	Native Hawaiian/Pacific Islander	52	17.3%	7.7%	11.5%	21.2%	30.8%	11.5%
	Black/African American	5,103	23.8%	17.2%	9.9%	14.7%	27.2%	7.2%
	American Indian	73	12.3%	13.7%	6.8%	9.6%	34.2%	23.3%
	White	38,047	7.5%	9.1%	7.7%	13.6%	40.8%	21.3%
	Other	2,040	10.3%	11.6%	8.5%	15.9%	37.7%	15.8%
Migrant	Non-Migrant	50,230	9.7%	10.3%	8.3%	14%	38.6%	19.1%
	Migrant	205	22.9%	21%	11.2%	16.6%	26.3%	2%
LEP	Non-LEP	48,340	9%	10%	8.3%	14%	39.2%	19.5%
	LEP	2,095	25.3%	19.4%	10%	13.4%	24%	7.9%
Economic Disadvantage	Free Lunch	28,086	13.9%	13.6%	10.1%	15.9%	35.1%	11.3%
	Reduced-Price Lunch	2,083	7.2%	10.1%	8.2%	15.7%	39.6%	19.2%
	Regular Lunch	20,266	4.2%	5.8%	6%	11.2%	43.2%	29.6%
IEP	Non-IEP	44,396	6.8%	9%	7.9%	14.2%	41.2%	20.8%
	IEP	6,039	31.1%	20.1%	11.5%	12.8%	19.2%	5.3%

Grade 8 Reading

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	49,690	7.4%	9.6%	10.4%	9.7%	35.7%	27.1%
Gender	Female	24,152	4.7%	7.3%	9.1%	9.1%	37%	32.8%
	Male	25,538	10%	11.9%	11.6%	10.3%	34.4%	21.8%
Ethnicity	Hispanic	3,271	10.4%	12.9%	13.1%	11.4%	34.8%	17.4%
	Asian	878	5%	7.4%	5.5%	4.8%	32.5%	44.9%
	Native Hawaiian/Pacific Islander	67	10.4%	16.4%	10.4%	9%	29.9%	23.9%
	Black/African American	5,179	18.9%	17.2%	14.9%	10.1%	26.5%	12.3%
	American Indian	56	12.5%	5.4%	8.9%	10.7%	33.9%	28.6%
	White	37,791	5.7%	8.2%	9.3%	9.3%	37.3%	30.2%
	Other	1,869	6.8%	11.7%	12%	10.8%	37%	21.7%
Migrant	Missing	579	5.2%	15.7%	26.6%	27.3%	20%	5.2%
	Non-Migrant	49,512	7.4%	9.6%	10.4%	9.7%	35.7%	27.2%
LEP	Migrant	178	21.9%	19.7%	12.4%	9.6%	28.7%	7.9%
	Non-LEP	47,666	6.8%	9.2%	10.2%	9.7%	36.2%	27.9%
Economic Disadvantage	LEP	2,024	21.9%	19.5%	14.9%	9.9%	23.9%	9.9%
	Free Lunch	27,020	10.8%	13.1%	12.7%	11%	34.7%	17.7%
	Reduced-Price Lunch	1,995	5.9%	7.9%	10%	10.3%	38.6%	27.4%
IEP	Regular Lunch	20,675	3.2%	5.4%	7.4%	8%	36.6%	39.4%
	Non-IEP	44,194	5.1%	7.9%	9.8%	9.8%	37.6%	29.7%
	IEP	5,496	25.8%	23.3%	14.9%	9.3%	19.9%	6.7%

Grade 3 Mathematics

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	48,944	8.5%	10.3%	18%	15.8%	34.5%	12.9%
Gender	Female	23,602	8.2%	10.7%	18.5%	16.6%	34.3%	11.7%
	Male	25,338	8.7%	10%	17.6%	15.1%	34.7%	14%
Ethnicity	Hispanic	3,745	12%	14%	21.5%	15.9%	29.2%	7.5%
	Asian	885	3.6%	6.2%	10.7%	12.8%	35.9%	30.7%
	Native Hawaiian/Pacific Islander	66	7.6%	12.1%	31.8%	9.1%	31.8%	7.6%
	Black/African American	5,121	19.7%	18.1%	22.3%	14.6%	20.8%	4.5%
	American Indian	52	5.8%	1.9%	21.2%	15.4%	34.6%	21.2%
	White	36,278	6.5%	8.8%	17.2%	15.8%	37.2%	14.5%
	Other	2,322	9.3%	11.3%	19.5%	17.2%	32.8%	9.9%
Migrant	Missing	475	10.1%	17.5%	14.1%	26.7%	27.4%	4.2%
	Non-Migrant	48,699	8.4%	10.3%	18%	15.8%	34.6%	12.9%
LEP	Migrant	245	15.1%	13.1%	26.5%	15.5%	24.9%	4.9%
	Non-LEP	45,686	8%	10%	17.8%	15.8%	35.1%	13.3%
	LEP	3,258	14.4%	14.4%	21.6%	16.6%	26.1%	7%

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
Economic Disadvantage	Free Lunch	28,947	11.7%	13.2%	21.3%	16.7%	29.4%	7.7%
	Reduced-Price Lunch	2,013	5.5%	8.9%	17.5%	16.7%	37.6%	13.8%
	Regular Lunch	17,984	3.5%	5.8%	12.8%	14.4%	42.4%	21.1%
IEP	Non-IEP	40,023	6%	8.9%	17.6%	16.3%	37.1%	14.2%
	IEP	8,921	19.5%	16.6%	19.9%	13.9%	23.1%	7%

Grade 4 Mathematics

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	51,157	10.6%	10.9%	15.7%	15.9%	30.7%	16.1%
Gender	Female	24,999	9.7%	11.3%	16.4%	16.9%	30.8%	14.9%
	Male	26,154	11.5%	10.6%	15.1%	15%	30.5%	17.3%
Ethnicity	Hispanic	3,852	13.9%	14.3%	19.1%	16.9%	26.8%	8.9%
	Asian	828	5.7%	6.2%	8.5%	9.4%	28.6%	41.7%
	Native Hawaiian/Pacific Islander	68	13.2%	13.2%	23.5%	14.7%	22.1%	13.2%
	Black/African American	5,378	24.9%	17.3%	19.1%	15%	18.9%	4.8%
	American Indian	56	10.7%	10.7%	25%	10.7%	23.2%	19.6%
	White	38,021	8.3%	9.6%	14.8%	15.9%	33.1%	18.3%
	Other	2,393	12.3%	14.4%	17%	16.3%	27.6%	12.3%
	Missing	561	7.3%	11.2%	25%	28%	25%	3.6%
Migrant	Non-Migrant	50,899	10.6%	10.9%	15.7%	15.9%	30.7%	16.2%
	Migrant	258	19%	14.7%	20.2%	14.7%	25.6%	5.8%
LEP	Non-LEP	48,058	10.2%	10.6%	15.4%	15.9%	31.2%	16.7%
	LEP	3,099	17.5%	15.9%	20.5%	16.6%	22.1%	7.4%
Economic Disadvantage	Free Lunch	30,130	14.4%	13.8%	18.5%	17.1%	26.6%	9.5%
	Reduced-Price Lunch	2,061	8.2%	10%	14.8%	16.3%	34.2%	16.6%
	Regular Lunch	18,966	4.9%	6.4%	11.5%	13.9%	36.7%	26.6%
IEP	Non-IEP	42,818	8.1%	9.7%	15.3%	16.6%	32.7%	17.5%
	IEP	8,339	23.6%	17.1%	17.7%	12.4%	20.1%	9.2%

Grade 5 Mathematics

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	51,975	7.4%	9.2%	13.7%	18%	31.8%	20%
Gender	Female	25,427	6.4%	8.7%	14%	19.4%	33%	18.6%
	Male	26,546	8.3%	9.7%	13.4%	16.6%	30.6%	21.3%
Ethnicity	Hispanic	4,021	8.7%	11.6%	16.4%	20.3%	30.8%	12.2%
	Asian	862	3.2%	3%	7.3%	10.7%	29.2%	46.5%
	Native Hawaiian/Pacific Islander	81	11.1%	12.3%	13.6%	13.6%	29.6%	19.8%

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
	Black/African American	5,468	17.7%	16.8%	18.9%	19.1%	21.3%	6.2%
	American Indian	64	12.5%	4.7%	20.3%	21.9%	29.7%	10.9%
	White	38,592	5.8%	7.9%	12.6%	17.6%	33.5%	22.6%
	Other	2,333	8.1%	10.7%	14.1%	19.5%	31.5%	15.9%
	Missing	554	7%	17.1%	20.4%	25.5%	25.1%	4.9%
Migrant	Non-Migrant	51,725	7.3%	9.2%	13.7%	18%	31.8%	20%
	Migrant	250	14.8%	15.2%	16%	22%	22.8%	9.2%
LEP	Non-LEP	49,350	7%	8.9%	13.4%	17.9%	32.2%	20.5%
	LEP	2,625	13.4%	15.2%	18.6%	20.1%	22.8%	9.9%
Economic Disadvantage	Free Lunch	30,334	10.2%	12.1%	16.6%	19.7%	29.2%	12.2%
	Reduced-Price Lunch	2,042	5%	7.9%	13.7%	18.3%	35.1%	20%
	Regular Lunch	19,599	3.3%	4.9%	9.1%	15.4%	35.4%	31.9%
IEP	Non-IEP	44,023	5.3%	7.6%	12.9%	18.3%	34%	21.9%
	IEP	7,952	18.8%	18.2%	18.1%	16.2%	19.5%	9.2%

Grade 6 Mathematics

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	52,092	4.7%	7.2%	22.9%	18.4%	33.7%	13.1%
Gender	Female	25,516	3.8%	6.4%	22%	19%	35.3%	13.6%
	Male	26,574	5.6%	7.9%	23.8%	17.9%	32.1%	12.7%
Ethnicity	Hispanic	3,807	7%	8.6%	29.1%	20.3%	28.1%	7%
	Asian	866	3%	3.1%	10.7%	13.3%	36.7%	33.1%
	Native Hawaiian/Pacific Islander	74	1.4%	12.2%	37.8%	18.9%	21.6%	8.1%
	Black/African American	5,508	12.1%	15.6%	32.9%	16.9%	19.3%	3.3%
	American Indian	64	9.4%	7.8%	17.2%	23.4%	26.6%	15.6%
	White	38,843	3.4%	5.8%	20.7%	18.5%	36.6%	15.1%
	Other	2,310	5.5%	8.4%	28.1%	19.4%	29.6%	8.9%
	Missing	620	7.7%	13.5%	28.5%	20.2%	25.8%	4.2%
Migrant	Non-Migrant	51,872	4.6%	7.2%	22.8%	18.5%	33.7%	13.2%
	Migrant	220	14.5%	7.7%	32.7%	14.5%	26.8%	3.6%
LEP	Non-LEP	49,875	4.3%	6.9%	22.5%	18.6%	34.4%	13.5%
	LEP	2,217	13.4%	14.5%	32.5%	15.8%	18.2%	5.6%
Economic Disadvantage	Free Lunch	29,870	6.6%	9.5%	28.3%	19.6%	28.7%	7.3%
	Reduced-Price Lunch	2,176	3.4%	6.4%	22.5%	17.8%	37.8%	12.1%
	Regular Lunch	20,046	2%	3.8%	14.8%	16.8%	40.7%	22%
IEP	Non-IEP	45,106	3.1%	5.6%	21.2%	19.2%	36.5%	14.4%
	IEP	6,986	14.8%	17.5%	33.5%	13.7%	15.5%	4.9%

Grade 7 Mathematics

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	50,450	6.1%	7.9%	16.3%	22.4%	33.9%	13.4%
Gender	Female	24,395	4.8%	7.1%	15.8%	23.4%	35.5%	13.3%
	Male	26,055	7.3%	8.7%	16.9%	21.4%	32.3%	13.4%
Ethnicity	Hispanic	3,637	8.2%	10.4%	20.3%	25.6%	28.1%	7.3%
	Asian	874	3.3%	4.7%	6.5%	14.4%	33.8%	37.3%
	Native Hawaiian/Pacific Islander	53	11.3%	7.5%	18.9%	22.6%	28.3%	11.3%
	Black/African American	5,103	15.4%	15.9%	24.9%	21.1%	18.9%	3.8%
	American Indian	73	6.8%	1.4%	17.8%	20.5%	35.6%	17.8%
	White	38,040	4.6%	6.6%	14.8%	22.2%	36.8%	15.1%
	Other	2,041	7.9%	9.7%	17.1%	24.6%	30.8%	9.8%
	Missing	629	8.7%	12.2%	26.2%	24.8%	23.8%	4.1%
Migrant	Non-Migrant	50,243	6.1%	7.9%	16.3%	22.3%	34%	13.4%
	Migrant	207	14%	15.5%	22.2%	31.9%	15%	1.4%
LEP	Non-LEP	48,333	5.7%	7.6%	16%	22.5%	34.5%	13.7%
	LEP	2,117	15.1%	15.2%	23.7%	20%	18.7%	7.4%
Economic Disadvantage	Free Lunch	28,095	8.6%	10.8%	20.7%	24.9%	28.2%	6.8%
	Reduced-Price Lunch	2,083	4.4%	7.2%	15%	24.7%	36.4%	12.1%
	Regular Lunch	20,272	2.8%	4%	10.5%	18.6%	41.4%	22.7%
IEP	Non-IEP	44,412	4.5%	6.5%	15%	22.9%	36.5%	14.7%
	IEP	6,038	18%	18.8%	26.2%	18.7%	14.8%	3.6%

Grade 8 Mathematics

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
All	Students Tested	49,707	11.8%	5.7%	18.5%	18.5%	33.8%	11.7%
Gender	Female	24,158	9.5%	4.9%	17.8%	19.3%	36.7%	11.8%
	Male	25,549	14%	6.4%	19.2%	17.8%	31%	11.6%
Ethnicity	Hispanic	3,293	16.5%	7.2%	23.2%	19.3%	27%	6.9%
	Asian	884	6.1%	2.1%	10%	10.3%	35.2%	36.3%
	Native Hawaiian/Pacific Islander	68	13.2%	7.4%	25%	14.7%	35.3%	4.4%
	Black/African American	5,175	27.7%	10.7%	23.3%	16.9%	18.4%	3.1%
	American Indian	56	10.7%	7.1%	17.9%	12.5%	42.9%	8.9%
	White	37,783	9.3%	4.8%	17.5%	18.8%	36.5%	13.1%
	Other	1,869	13.9%	6.6%	20.8%	18.6%	32%	8.1%
	Missing	579	6.6%	14.3%	23.7%	23%	30.2%	2.2%
Migrant	Non-Migrant	49,525	11.8%	5.7%	18.5%	18.5%	33.8%	11.7%
	Migrant	182	20.9%	6%	28%	16.5%	26.9%	1.6%
LEP	Non-LEP	47,655	11.1%	5.5%	18.3%	18.6%	34.4%	11.9%
	LEP	2,052	26.9%	9.3%	23.8%	16.3%	17.6%	5.9%
Economic	Free Lunch	27,028	16.9%	7.5%	22.8%	19.7%	27.3%	5.7%

	Test Group	N	Novice-Low	Novice-High	Apprentice-Low	Apprentice-High	Proficient	Distinguished
Disadvantage	Reduced-Price Lunch	1,995	9.4%	5.1%	19%	19%	36%	11.5%
	Regular Lunch	20,684	5.3%	3.3%	12.9%	17%	41.9%	19.5%
IEP	Non-IEP	44,211	8.9%	5%	17.7%	19.3%	36.4%	12.8%
	IEP	5,496	35%	11.5%	25.5%	12.8%	12.4%	2.8%

Grade 4 Science

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,145	14.9%	53.4%	28.4%	3.3%
Gender	Female	24,995	13.9%	54.5%	28.6%	3%
	Male	26,146	15.8%	52.3%	28.3%	3.6%
Ethnicity	Hispanic	3,851	20.8%	59.4%	18.5%	1.3%
	Asian	827	9.7%	43.4%	37%	9.9%
	Native Hawaiian/Pacific Islander	68	16.2%	63.2%	19.1%	1.5%
	Black/African American	5,376	35.2%	52.9%	11.3%	0.5%
	American Indian	56	19.6%	48.2%	30.4%	1.8%
	White	38,013	11.3%	52.9%	32%	3.8%
	Other	2,393	17.6%	56.4%	23.4%	2.7%
	Missing	561	16.9%	51.2%	26.2%	5.7%
Migrant	Non-Migrant	50,887	14.8%	53.4%	28.5%	3.3%
	Migrant	258	28.7%	58.1%	13.2%	0%
LEP	Non-LEP	48,048	14.2%	52.9%	29.5%	3.5%
	LEP	3,097	25.9%	60.9%	12.6%	0.6%
Economic Disadvantage	Free Lunch	30,117	20%	57.4%	20.9%	1.7%
	Reduced-Price Lunch	2,061	11.6%	52.5%	32.6%	3.3%
	Regular Lunch	18,967	7.1%	47.1%	39.9%	5.9%
IEP	Non-IEP	42,813	12.7%	53.6%	30.2%	3.4%
	IEP	8,332	25.9%	52.3%	19.1%	2.7%

Grade 7 Science

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,436	20.4%	53.5%	24.2%	1.9%
Gender	Female	24,388	18.7%	55.1%	24.4%	1.8%
	Male	26,047	21.9%	52.1%	24%	2%
Ethnicity	Hispanic	3,635	26.2%	56.3%	16.9%	0.7%
	Asian	872	12.5%	36.9%	42.2%	8.4%
	Native Hawaiian/Pacific Islander	53	32.1%	54.7%	13.2%	0%
	Black/African American	5,097	38.4%	52%	9.4%	0.3%
	American Indian	73	17.8%	52.1%	27.4%	2.7%
	White	38,035	17.5%	53.7%	26.7%	2.1%
	Other	2,041	22%	56.4%	20%	1.5%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Missing	630	15.2%	56.7%	24.9%	3.2%
Migrant	Non-Migrant	50,229	20.3%	53.5%	24.3%	1.9%
	Migrant	207	35.7%	58.9%	5.3%	0%
LEP	Non-LEP	48,322	19.6%	53.8%	24.7%	2%
	LEP	2,114	38.6%	48%	12.3%	1.2%
Economic Disadvantage	Free Lunch	28,081	27.3%	56.1%	15.9%	0.7%
	Reduced-Price Lunch	2,085	15.9%	57.8%	25%	1.3%
	Regular Lunch	20,270	11.2%	49.6%	35.5%	3.7%
IEP	Non-IEP	44,401	17.3%	54.3%	26.3%	2.1%
	IEP	6,035	43.1%	48%	8.6%	0.3%

Grade 11 Science

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	45,278	19.2%	50.3%	28.4%	2.2%
Gender	Female	22,214	15.4%	51.6%	30.8%	2.2%
	Male	23,062	22.8%	49%	26%	2.1%
Ethnicity	Hispanic	2,742	27.1%	53.1%	19%	0.8%
	Asian	906	16.3%	38.1%	37.9%	7.7%
	Native Hawaiian/Pacific Islander	53	20.8%	54.7%	18.9%	5.7%
	Black/African American	4,621	38.1%	50.8%	10.9%	0.3%
	American Indian	57	19.3%	49.1%	31.6%	0%
	White	35,069	16%	50.2%	31.4%	2.4%
	Other	1,261	21.6%	53.7%	22.5%	2.1%
	Missing	569	20.9%	50.4%	26.2%	2.5%
Migrant	Non-Migrant	45,153	19.1%	50.3%	28.4%	2.2%
	Migrant	125	50.4%	44%	5.6%	0%
LEP	Non-LEP	43,819	18%	50.6%	29.2%	2.2%
	LEP	1,459	55.1%	40.4%	4.4%	0.1%
Economic Disadvantage	Free Lunch	21,813	26.1%	54%	19.1%	0.8%
	Reduced-Price Lunch	1,936	16%	52.9%	29.8%	1.4%
	Regular Lunch	21,529	12.4%	46.3%	37.6%	3.6%
IEP	Non-IEP	41,503	16.5%	50.7%	30.4%	2.3%
	IEP	3,775	48.3%	45.9%	5.6%	0.2%

Grade 5 Social Studies

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,930	14.1%	32.9%	41.1%	11.9%
Gender	Female	25,406	13.5%	35%	40.5%	11%
	Male	26,522	14.6%	30.8%	41.8%	12.8%
Ethnicity	Hispanic	3,997	20.4%	39.2%	34.2%	6.2%
	Asian	856	10.2%	22.8%	39.8%	27.2%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Native Hawaiian/Pacific Islander	80	16.3%	32.5%	33.8%	17.5%
	Black/African American	5,464	33.4%	39.2%	24.1%	3.4%
	American Indian	64	21.9%	34.4%	37.5%	6.3%
	White	38,583	10.7%	31.2%	44.5%	13.7%
	Other	2,332	15.9%	34.7%	41%	8.4%
	Missing	554	12.1%	50.7%	29.4%	7.8%
Migrant	Non-Migrant	51,686	14%	32.8%	41.2%	12%
	Migrant	244	26.2%	38.5%	31.6%	3.7%
LEP	Non-LEP	49,345	13.2%	32.4%	42%	12.3%
	LEP	2,585	30.5%	40.8%	23.8%	4.9%
Economic Disadvantage	Free Lunch	30,307	19.3%	37.9%	35.9%	7%
	Reduced-Price Lunch	2,041	11.5%	33.6%	44.1%	10.9%
	Regular Lunch	19,582	6.3%	25%	49%	19.8%
IEP	Non-IEP	43,980	10.4%	32.3%	44.2%	13.1%
	IEP	7,950	34.4%	36%	24.4%	5.2%

Grade 8 Social Studies

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,667	9.9%	31.2%	42.5%	16.4%
Gender	Female	24,137	8.1%	32%	43.8%	16.2%
	Male	25,530	11.6%	30.4%	41.4%	16.6%
Ethnicity	Hispanic	3,267	14.1%	38.8%	38%	9.1%
	Asian	879	7.1%	16.3%	40.3%	36.4%
	Native Hawaiian/Pacific Islander	67	11.9%	49.3%	22.4%	16.4%
	Black/African American	5,172	24.7%	41.4%	28.6%	5.4%
	American Indian	56	10.7%	26.8%	44.6%	17.9%
	White	37,779	7.3%	28.9%	45.3%	18.4%
	Other	1,868	10.4%	36.2%	40.5%	13%
	Missing	579	22.5%	49.7%	22.6%	5.2%
Migrant	Non-Migrant	49,494	9.8%	31.1%	42.6%	16.5%
	Migrant	173	24.3%	42.8%	29.5%	3.5%
LEP	Non-LEP	47,646	9.1%	30.8%	43.2%	16.9%
	LEP	2,021	27.5%	39.9%	27.1%	5.6%
Economic Disadvantage	Free Lunch	27,003	14.2%	38.6%	37.8%	9.3%
	Reduced-Price Lunch	1,994	7.1%	29.5%	46%	17.4%
	Regular Lunch	20,670	4.5%	21.5%	48.4%	25.6%
IEP	Non-IEP	44,175	7%	29.8%	45.2%	18%
	IEP	5,492	33.2%	42.2%	21.1%	3.6%

Grade 5 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,912	24.4%	28.8%	41%	5.7%
Gender	Female	25,402	18.1%	26.5%	47.5%	7.9%
	Male	26,508	30.6%	31.1%	34.7%	3.6%
Ethnicity	Hispanic	3,994	29%	32.3%	35.5%	3.1%
	Asian	855	14.5%	22.7%	51.8%	11%
	Native Hawaiian/Pacific Islander	80	25%	28.8%	40%	6.3%
	Black/African American	5,460	43.7%	29.6%	24.9%	1.8%
	American Indian	64	29.7%	26.6%	37.5%	6.3%
	White	38,573	21.4%	28.1%	44%	6.5%
	Other	2,332	27.3%	31.1%	37%	4.6%
	Missing	554	17%	44.8%	31.9%	6.3%
Migrant	Non-Migrant	51,668	24.4%	28.9%	41%	5.7%
	Migrant	244	40.2%	25.4%	31.6%	2.9%
LEP	Non-LEP	49,331	23.7%	28.7%	41.7%	5.9%
	LEP	2,581	39.3%	31.8%	26.5%	2.4%
Economic Disadvantage	Free Lunch	30,290	31.4%	30.9%	34.5%	3.3%
	Reduced-Price Lunch	2,040	21.9%	30.9%	41.9%	5.3%
	Regular Lunch	19,582	14%	25.5%	51%	9.5%
IEP	Non-IEP	43,966	19.3%	29.5%	44.8%	6.4%
	IEP	7,946	52.8%	25.2%	19.7%	2.2%

Grade 8 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,604	20%	47.9%	21.7%	10.4%
Gender	Female	24,116	11.3%	46%	27.6%	15.1%
	Male	25,488	28.3%	49.7%	16%	5.9%
Ethnicity	Hispanic	3,264	24.3%	52%	17.3%	6.4%
	Asian	878	11.5%	37.1%	28.6%	22.8%
	Native Hawaiian/Pacific Islander	67	26.9%	50.7%	13.4%	9%
	Black/African American	5,152	39.6%	45.7%	10.9%	3.9%
	American Indian	56	25%	37.5%	23.2%	14.3%
	White	37,747	17.1%	48%	23.3%	11.6%
	Other	1,861	21.8%	50.1%	20.5%	7.6%
	Missing	579	19.9%	48.4%	25.6%	6.2%
Migrant	Non-Migrant	49,432	20%	47.9%	21.7%	10.4%
	Migrant	172	35.5%	49.4%	10.5%	4.7%
LEP	Non-LEP	47,590	19.3%	48%	22.1%	10.7%
	LEP	2,014	38.3%	46.6%	10.5%	4.6%
Economic Disadvantage	Free Lunch	26,951	26.6%	50.1%	16.9%	6.4%
	Reduced-Price Lunch	1,993	18.2%	51.2%	21.4%	9.3%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Regular Lunch	20,660	11.6%	44.8%	27.9%	15.8%
IEP	Non-IEP	44,134	15.4%	49.3%	23.8%	11.5%
	IEP	5,470	57.4%	36.6%	4.6%	1.4%

Grade 11 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	45,111	14.3%	34.2%	43.1%	8.4%
Gender	Female	22,159	9.7%	31.6%	47.8%	11%
	Male	22,950	18.7%	36.7%	38.6%	6%
Ethnicity	Hispanic	2,719	24.2%	41.4%	30.2%	4.2%
	Asian	903	17.5%	24.9%	40.3%	17.3%
	Native Hawaiian/Pacific Islander	53	20.8%	39.6%	35.8%	3.8%
	Black/African American	4,591	29.1%	43.9%	24.6%	2.3%
	American Indian	56	19.6%	33.9%	39.3%	7.1%
	White	34,964	11.4%	32.2%	47%	9.5%
	Other	1,256	16.6%	37%	40.7%	5.7%
	Missing	569	12.8%	52.7%	28.8%	5.6%
Migrant	Non-Migrant	44,988	14.2%	34.2%	43.2%	8.4%
	Migrant	123	49.6%	30.1%	19.5%	0.8%
LEP	Non-LEP	43,676	13%	34.1%	44.2%	8.7%
	LEP	1,435	53%	36.2%	10.5%	0.3%
Economic Disadvantage	Free Lunch	21,703	19.9%	39.6%	35.9%	4.6%
	Reduced-Price Lunch	1,932	12.5%	35.1%	44.3%	8.1%
	Regular Lunch	21,476	8.8%	28.7%	50.3%	12.3%
IEP	Non-IEP	41,375	11.3%	33.6%	46%	9.1%
	IEP	3,736	47.2%	40.8%	11.3%	0.7%

Appendix M. Reliability¹⁰

Overall Test

Grade 3 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	45,757	0.87	0.86	0.46	6.49
Gender	Female	22,291	0.86	0.85	0.45	6.54
	Male	23,463	0.87	0.86	0.45	6.44
Ethnicity	Hispanic	3,506	0.85	0.84	0.44	6.37
	Asian	862	0.88	0.87	0.44	6.71
	Native Hawaiian/Pacific Islander	63	0.82	0.80	0.49	6.20
	Black/African American	4,547	0.87	0.86	0.49	6.26
	American Indian	51	0.87	0.85	0.50	6.26
	White	34,580	0.86	0.85	0.45	6.55
	Other	2,144	0.87	0.86	0.42	6.39
	Missing	4	--	--	--	--
Migrant	Non-Migrant	45,524	0.87	0.86	0.46	6.49
	Migrant	233	0.84	0.83	0.46	6.19
LEP	Non-LEP	42,641	0.87	0.86	0.46	6.50
	LEP	3,116	0.84	0.83	0.40	6.23
Economic Disadvantage	Free Lunch	27,089	0.86	0.85	0.46	6.37
	Reduced-Price Lunch	1,896	0.86	0.85	0.42	6.55
	Regular Lunch	16,772	0.85	0.84	0.41	6.71
IEP	Non-IEP	37,265	0.86	0.85	0.42	6.53
	IEP	8,492	0.88	0.87	0.53	6.45

Grade 4 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	47,524	0.84	0.80	0.59	6.05
Gender	Female	23,746	0.84	0.80	0.59	6.06
	Male	23,775	0.84	0.81	0.59	6.02
Ethnicity	Hispanic	3,608	0.82	0.78	0.57	5.97
	Asian	794	0.85	0.82	0.65	6.21
	Native Hawaiian/Pacific Islander	61	0.80	0.75	0.61	5.87
	Black/African American	4,621	0.83	0.79	0.61	5.99
	American Indian	51	0.80	0.77	0.55	5.78
	White	36,183	0.83	0.80	0.57	6.04
	Other	2,203	0.83	0.80	0.59	6.05
	Missing	3	--	--	--	--
Migrant	Non-Migrant	47,286	0.84	0.80	0.59	6.05

¹⁰ Alternate K-PREP students are not included.

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Migrant	238	0.77	0.72	0.49	6.09
LEP	Non-LEP	44,662	0.84	0.80	0.59	6.04
	LEP	2,862	0.80	0.75	0.55	6.02
Economic Disadvantage	Free Lunch	27,812	0.82	0.79	0.59	5.99
	Reduced-Price Lunch	1,949	0.82	0.78	0.58	6.00
	Regular Lunch	17,763	0.82	0.79	0.55	6.08
IEP	Non-IEP	39,964	0.83	0.79	0.57	6.02
	IEP	7,560	0.86	0.82	0.63	6.17

Grade 5 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	50,407	0.84	0.82	0.50	6.15
Gender	Female	24,914	0.84	0.81	0.48	6.19
	Male	25,491	0.85	0.83	0.49	6.08
Ethnicity	Hispanic	3,900	0.83	0.80	0.49	6.10
	Asian	849	0.87	0.85	0.56	6.38
	Native Hawaiian/Pacific Islander	77	0.87	0.85	0.58	6.27
	Black/African American	5,196	0.84	0.81	0.53	6.08
	American Indian	62	0.84	0.82	0.51	5.86
	White	38,038	0.84	0.82	0.48	6.15
	Other	2,280	0.84	0.82	0.49	6.16
	Missing	5	--	--	--	--
Migrant	Non-Migrant	50,172	0.84	0.82	0.50	6.15
	Migrant	235	0.82	0.79	0.51	6.04
LEP	Non-LEP	47,879	0.84	0.82	0.49	6.15
	LEP	2,528	0.83	0.80	0.52	6.14
Economic Disadvantage	Free Lunch	29,584	0.83	0.81	0.49	6.06
	Reduced-Price Lunch	2,007	0.82	0.80	0.47	6.08
	Regular Lunch	18,816	0.82	0.81	0.46	6.26
IEP	Non-IEP	42,679	0.83	0.81	0.46	6.15
	IEP	7,728	0.86	0.84	0.58	6.12

Grade 6 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	50,106	0.88	0.86	0.64	5.31
Gender	Female	24,837	0.87	0.85	0.62	5.36
	Male	25,267	0.88	0.86	0.65	5.24
Ethnicity	Hispanic	3,678	0.87	0.85	0.62	5.28
	Asian	845	0.89	0.87	0.67	5.43
	Native Hawaiian/Pacific Islander	72	0.88	0.85	0.72	5.37
	Black/African American	5,159	0.87	0.85	0.64	5.27
	American Indian	61	0.88	0.86	0.73	5.41
	White	38,063	0.87	0.85	0.63	5.31

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Other	2,223	0.87	0.85	0.63	5.33
	Missing	5	--	--	--	--
Migrant	Non-Migrant	49,894	0.88	0.86	0.64	5.31
	Migrant	212	0.87	0.84	0.71	5.28
LEP	Non-LEP	47,995	0.88	0.86	0.64	5.31
	LEP	2,111	0.87	0.85	0.65	5.29
Economic Disadvantage	Free Lunch	28,879	0.87	0.85	0.63	5.27
	Reduced-Price Lunch	2,121	0.87	0.85	0.61	5.29
	Regular Lunch	19,106	0.86	0.84	0.61	5.33
IEP	Non-IEP	43,432	0.87	0.85	0.62	5.31
	IEP	6,674	0.87	0.85	0.67	5.27

Grade 7 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,499	0.86	0.84	0.57	5.65
Gender	Female	23,785	0.86	0.84	0.53	5.63
	Male	24,714	0.86	0.84	0.58	5.62
Ethnicity	Hispanic	3,503	0.85	0.83	0.56	5.60
	Asian	856	0.88	0.86	0.56	5.62
	Native Hawaiian/Pacific Islander	46	0.85	0.83	0.52	5.72
	Black/African American	4,721	0.85	0.83	0.59	5.67
	American Indian	71	0.88	0.87	0.52	5.56
	White	37,337	0.85	0.83	0.56	5.65
	Other	1,963	0.85	0.83	0.56	5.65
	Missing	2	--	--	--	--
Migrant	Non-Migrant	48,304	0.86	0.84	0.57	5.65
	Migrant	195	0.81	0.78	0.43	5.61
LEP	Non-LEP	46,511	0.86	0.84	0.57	5.65
	LEP	1,988	0.86	0.84	0.58	5.72
Economic Disadvantage	Free Lunch	27,140	0.85	0.83	0.56	5.62
	Reduced-Price Lunch	2,028	0.84	0.82	0.55	5.65
	Regular Lunch	19,331	0.84	0.81	0.53	5.66
IEP	Non-IEP	42,719	0.85	0.82	0.54	5.64
	IEP	5,780	0.86	0.84	0.59	5.63

Grade 8 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,134	0.87	0.85	0.61	5.54
Gender	Female	23,712	0.86	0.85	0.56	5.54
	Male	24,422	0.87	0.86	0.61	5.49
Ethnicity	Hispanic	3,198	0.87	0.84	0.61	5.49
	Asian	865	0.88	0.87	0.62	5.58
	Native Hawaiian/Pacific Islander	63	0.89	0.87	0.61	5.63

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Black/African American	4,864	0.87	0.85	0.63	5.58
	American Indian	55	0.87	0.85	0.65	5.42
	White	37,268	0.87	0.85	0.59	5.53
	Other	1,817	0.86	0.84	0.59	5.55
	Missing	4	--	--	--	--
Migrant	Non-Migrant	47,966	0.87	0.85	0.60	5.54
	Migrant	168	0.85	0.83	0.62	5.49
LEP	Non-LEP	46,208	0.87	0.85	0.60	5.54
	LEP	1,926	0.87	0.85	0.63	5.57
Economic Disadvantage	Free Lunch	26,291	0.86	0.84	0.60	5.52
	Reduced-Price Lunch	1,967	0.86	0.84	0.57	5.52
	Regular Lunch	19,876	0.85	0.83	0.56	5.55
IEP	Non-IEP	42,835	0.86	0.84	0.58	5.53
	IEP	5,299	0.85	0.83	0.65	5.58

Grade 3 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	46,542	0.91	0.90	0.61	6.15
Gender	Female	22,682	0.91	0.90	0.60	6.09
	Male	23,856	0.91	0.90	0.62	6.20
Ethnicity	Hispanic	3,567	0.90	0.89	0.60	5.97
	Asian	865	0.92	0.91	0.63	7.02
	Native Hawaiian/Pacific Islander	65	0.89	0.88	0.61	5.77
	Black/African American	4,729	0.90	0.89	0.59	5.75
	American Indian	51	0.89	0.88	0.56	6.54
	White	35,061	0.91	0.90	0.59	6.20
	Other	2,199	0.90	0.89	0.58	6.00
	Missing	5	--	--	--	--
Migrant	Non-Migrant	46,309	0.91	0.90	0.61	6.15
	Migrant	233	0.88	0.87	0.57	5.68
LEP	Non-LEP	43,424	0.91	0.90	0.60	6.17
	LEP	3,118	0.90	0.89	0.59	5.89
Economic Disadvantage	Free Lunch	27,570	0.90	0.89	0.60	5.90
	Reduced-Price Lunch	1,930	0.90	0.89	0.59	6.28
	Regular Lunch	17,042	0.90	0.89	0.55	6.50
IEP	Non-IEP	38,068	0.90	0.89	0.58	6.23
	IEP	8,474	0.91	0.90	0.66	5.98

Grade 4 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,674	0.91	0.89	0.70	5.73
Gender	Female	24,027	0.90	0.88	0.69	5.73
	Male	24,644	0.91	0.90	0.71	5.72

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
Ethnicity	Hispanic	3,687	0.89	0.87	0.67	5.46
	Asian	810	0.93	0.92	0.75	6.19
	Native Hawaiian/Pacific Islander	66	0.90	0.88	0.73	5.31
	Black/African American	4,989	0.89	0.86	0.67	5.42
	American Indian	54	0.92	0.91	0.73	6.44
	White	36,806	0.90	0.89	0.69	5.77
	Other	2,259	0.90	0.88	0.68	5.60
	Missing	3	--	--	--	--
Migrant	Non-Migrant	48,428	0.91	0.89	0.70	5.74
	Migrant	246	0.88	0.85	0.72	5.38
LEP	Non-LEP	45,685	0.91	0.89	0.70	5.75
	LEP	2,989	0.89	0.86	0.68	5.44
Economic Disadvantage	Free Lunch	28,759	0.89	0.87	0.69	5.53
	Reduced-Price Lunch	1,991	0.90	0.89	0.68	5.75
	Regular Lunch	17,924	0.90	0.89	0.66	5.95
IEP	Non-IEP	40,682	0.90	0.89	0.68	5.75
	IEP	7,992	0.90	0.88	0.76	5.66

Grade 5 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,393	0.91	0.90	0.67	5.70
Gender	Female	24,393	0.91	0.89	0.65	5.65
	Male	24,998	0.92	0.91	0.68	5.74
Ethnicity	Hispanic	3,807	0.90	0.88	0.62	5.48
	Asian	833	0.93	0.92	0.68	6.21
	Native Hawaiian/Pacific Islander	74	0.93	0.92	0.71	5.73
	Black/African American	5,050	0.89	0.88	0.61	5.46
	American Indian	61	0.90	0.88	0.59	5.63
	White	37,357	0.91	0.90	0.66	5.72
	Other	2,206	0.91	0.89	0.65	5.64
	Missing	5	--	--	--	--
Migrant	Non-Migrant	49,155	0.91	0.90	0.67	5.70
	Migrant	238	0.90	0.88	0.57	5.43
LEP	Non-LEP	46,904	0.91	0.90	0.66	5.71
	LEP	2,489	0.90	0.88	0.67	5.61
Economic Disadvantage	Free Lunch	28,922	0.90	0.89	0.64	5.52
	Reduced-Price Lunch	1,954	0.90	0.89	0.64	5.71
	Regular Lunch	18,517	0.91	0.90	0.64	5.89
IEP	Non-IEP	41,758	0.91	0.90	0.65	5.73
	IEP	7,635	0.90	0.89	0.71	5.58

Grade 6 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,434	0.91	0.89	0.67	5.46
Gender	Female	24,591	0.90	0.89	0.67	5.48
	Male	24,841	0.91	0.90	0.68	5.44
Ethnicity	Hispanic	3,584	0.89	0.87	0.68	5.33
	Asian	840	0.93	0.92	0.69	5.84
	Native Hawaiian/Pacific Islander	71	0.89	0.88	0.66	5.24
	Black/African American	5,045	0.87	0.84	0.69	5.22
	American Indian	61	0.94	0.93	0.76	5.64
	White	37,637	0.91	0.89	0.65	5.48
	Other	2,191	0.90	0.88	0.68	5.41
	Missing	5	--	--	--	--
Migrant	Non-Migrant	49,229	0.91	0.89	0.67	5.46
	Migrant	205	0.87	0.85	0.68	5.35
LEP	Non-LEP	47,368	0.91	0.89	0.67	5.46
	LEP	2,066	0.90	0.87	0.73	5.39
Economic Disadvantage	Free Lunch	28,433	0.89	0.87	0.67	5.32
	Reduced-Price Lunch	2,082	0.90	0.88	0.65	5.37
	Regular Lunch	18,919	0.91	0.89	0.62	5.60
IEP	Non-IEP	42,859	0.90	0.89	0.64	5.47
	IEP	6,575	0.89	0.86	0.75	5.33

Grade 7 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,425	0.90	0.89	0.63	5.52
Gender	Female	23,712	0.90	0.88	0.61	5.54
	Male	24,713	0.91	0.89	0.65	5.48
Ethnicity	Hispanic	3,480	0.88	0.86	0.60	5.33
	Asian	853	0.92	0.91	0.69	6.24
	Native Hawaiian/Pacific Islander	50	0.89	0.87	0.62	5.54
	Black/African American	4,719	0.87	0.84	0.62	5.33
	American Indian	69	0.90	0.89	0.56	5.70
	White	37,295	0.90	0.89	0.61	5.51
	Other	1,957	0.89	0.88	0.61	5.39
	Missing	2	--	--	--	--
Migrant	Non-Migrant	48,236	0.90	0.89	0.63	5.52
	Migrant	189	0.82	0.78	0.57	5.29
LEP	Non-LEP	46,434	0.90	0.89	0.63	5.51
	LEP	1,991	0.90	0.87	0.69	5.53
Economic Disadvantage	Free Lunch	27,081	0.88	0.86	0.60	5.37
	Reduced-Price Lunch	2,033	0.89	0.87	0.61	5.50
	Regular Lunch	19,311	0.90	0.89	0.61	5.62

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
IEP	Non-IEP	42,661	0.90	0.88	0.61	5.52
	IEP	5,764	0.86	0.83	0.65	5.37

Grade 8 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	47,020	0.90	0.89	0.71	5.49
Gender	Female	23,224	0.90	0.88	0.70	5.49
	Male	23,796	0.91	0.89	0.72	5.48
Ethnicity	Hispanic	3,105	0.89	0.87	0.68	5.36
	Asian	854	0.93	0.92	0.73	6.04
	Native Hawaiian/Pacific Islander	63	0.89	0.87	0.61	5.14
	Black/African American	4,660	0.88	0.85	0.68	5.29
	American Indian	52	0.90	0.88	0.74	5.42
	White	36,521	0.90	0.88	0.70	5.48
	Other	1,762	0.90	0.87	0.70	5.46
	Missing	3	--	--	--	--
Migrant	Non-Migrant	46,855	0.90	0.89	0.71	5.49
	Migrant	165	0.84	0.81	0.59	5.18
LEP	Non-LEP	45,127	0.90	0.88	0.71	5.49
	LEP	1,893	0.89	0.87	0.70	5.45
Economic Disadvantage	Free Lunch	25,584	0.89	0.86	0.68	5.30
	Reduced-Price Lunch	1,923	0.90	0.88	0.68	5.51
	Regular Lunch	19,513	0.90	0.89	0.68	5.63
IEP	Non-IEP	41,807	0.90	0.88	0.69	5.50
	IEP	5,213	0.87	0.83	0.71	5.28

Grade 4 Science, operational set #1

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	24,318	0.74	0.68	0.30	0.31	6.45
Gender	Female	12,058	0.73	0.66	0.28	0.29	6.48
	Male	12,259	0.76	0.70	0.32	0.33	6.42
Ethnicity	Hispanic	1,844	0.72	0.65	0.28	0.34	6.34
	Asian	388	0.76	0.72	0.35	0.29	6.67
	Native Hawaiian/Pacific Islander	34	0.67	0.58	0.36	0.11	6.40
	Black/African American	2,470	0.74	0.66	0.27	0.38	6.33
	American Indian	26	0.57	0.49	-0.55	-0.38	6.20
	White	18,378	0.72	0.66	0.29	0.28	6.46
	Other	1,177	0.73	0.66	0.30	0.29	6.35
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	24,187	0.74	0.68	0.30	0.31	6.45
	Migrant	131	0.71	0.63	0.26	0.43	6.39

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
LEP	Non-LEP	22,869	0.74	0.68	0.30	0.31	6.46
	LEP	1,449	0.70	0.62	0.24	0.33	6.33
Economic Disadvantage	Free Lunch	14,380	0.73	0.66	0.27	0.33	6.37
	Reduced-Price Lunch	974	0.72	0.66	0.37	0.27	6.45
	Regular Lunch	8,964	0.70	0.64	0.31	0.23	6.56
IEP	Non-IEP	20,314	0.73	0.66	0.30	0.28	6.43
	IEP	4,004	0.78	0.72	0.30	0.41	6.47

Grade 4 Science, operational set #2

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	23,952	0.73	0.68	0.36	0.30	6.05
Gender	Female	11,906	0.72	0.67	0.33	0.29	6.10
	Male	12,044	0.74	0.70	0.38	0.31	6.00
Ethnicity	Hispanic	1,823	0.69	0.64	0.33	0.23	6.02
	Asian	413	0.76	0.71	0.42	0.34	6.21
	Native Hawaiian/Pacific Islander	29	0.78	0.73	0.32	0.11	5.80
	Black/African American	2,470	0.70	0.66	0.25	0.17	6.11
	American Indian	28	0.80	0.76	0.25	-0.04	6.40
	White	18,118	0.72	0.66	0.36	0.31	6.02
	Other	1,069	0.73	0.67	0.36	0.35	6.16
	Missing	2	0.94	0.88	1.00	0.89	6.44
Migrant	Non-Migrant	23,838	0.73	0.68	0.36	0.30	6.05
	Migrant	114	0.66	0.61	0.24	0.23	6.14
LEP	Non-LEP	22,442	0.73	0.68	0.36	0.31	6.05
	LEP	1,510	0.67	0.63	0.28	0.19	6.05
Economic Disadvantage	Free Lunch	14,082	0.71	0.66	0.30	0.24	6.04
	Reduced-Price Lunch	1,008	0.71	0.65	0.36	0.31	6.04
	Regular Lunch	8,862	0.71	0.65	0.40	0.33	6.05
IEP	Non-IEP	20,151	0.72	0.67	0.36	0.30	6.04
	IEP	3,801	0.76	0.72	0.33	0.26	6.04

Grade 7 Science, operational set #1

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	24,091	0.78	0.75	0.19	0.31	6.05
Gender	Female	11,831	0.76	0.73	0.17	0.29	6.07
	Male	12,260	0.79	0.77	0.21	0.33	6.02
Ethnicity	Hispanic	1,791	0.75	0.72	0.13	0.26	6.13
	Asian	440	0.81	0.79	0.29	0.40	6.30

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
	Native Hawaiian/Pacific Islander	23	0.73	0.63	-.33	0.43	5.89
	Black/African American	2,322	0.71	0.67	0.12	0.26	6.24
	American Indian	39	0.80	0.78	0.09	0.41	6.15
	White	18,535	0.77	0.74	0.20	0.31	6.03
	Other	941	0.76	0.73	0.18	0.28	5.95
	Missing	--	--	--	--	--	--
Migrant	Non-Migrant	23,989	0.78	0.75	0.19	0.31	6.06
	Migrant	102	0.42	0.41	-.07	0.20	6.19
LEP	Non-LEP	23,003	0.77	0.75	0.19	0.32	6.05
	LEP	1,088	0.76	0.74	0.13	0.24	6.02
Economic Disadvantage	Free Lunch	13,496	0.73	0.71	0.11	0.27	6.08
	Reduced-Price Lunch	998	0.75	0.73	0.18	0.31	6.08
	Regular Lunch	9,597	0.77	0.74	0.25	0.33	6.04
IEP	Non-IEP	20,934	0.77	0.74	0.19	0.31	6.04
	IEP	3,157	0.71	0.67	0.10	0.26	6.04

Grade 7 Science, operational set #2

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	23,141	0.75	0.71	0.16	0.10	5.97
Gender	Female	11,500	0.74	0.70	0.13	0.09	6.06
	Male	11,640	0.77	0.73	0.18	0.12	5.88
Ethnicity	Hispanic	1,629	0.71	0.68	0.03	-.01	5.91
	Asian	406	0.79	0.75	0.17	0.05	6.38
	Native Hawaiian/Pacific Islander	24	0.67	0.59	-.22	-.22	5.96
	Black/African American	2,202	0.69	0.66	0.10	0.04	5.88
	American Indian	32	0.78	0.74	-.02	0.14	6.09
	White	17,869	0.75	0.71	0.16	0.12	5.98
	Other	976	0.75	0.70	0.16	0.03	6.02
	Missing	3	--	--	--	--	--
Migrant	Non-Migrant	23,056	0.75	0.71	0.16	0.10	5.98
	Migrant	85	0.51	0.54	-.02	-.05	5.79
LEP	Non-LEP	22,282	0.75	0.71	0.16	0.11	5.98
	LEP	859	0.76	0.74	0.10	0.04	5.87
Economic Disadvantage	Free Lunch	12,761	0.72	0.68	0.12	0.06	5.90
	Reduced-Price Lunch	989	0.73	0.68	0.09	0.03	5.94
	Regular Lunch	9,391	0.75	0.70	0.15	0.12	6.06
IEP	Non-IEP	20,791	0.75	0.71	0.16	0.10	5.99
	IEP	2,350	0.72	0.69	0.11	0.06	5.72

Grade 11 Science, operational set #1

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	10,975	0.82	0.79	0.41	0.20	5.81
Gender	Female	5,465	0.81	0.78	0.41	0.17	5.83
	Male	5,510	0.83	0.80	0.42	0.23	5.74
Ethnicity	Hispanic	646	0.78	0.74	0.33	0.18	5.89
	Asian	234	0.87	0.84	0.51	0.27	6.05
	Native Hawaiian/Pacific Islander	17	0.82	0.78	0.22	0.37	6.00
	Black/African American	1,019	0.75	0.71	0.23	0.17	5.93
	American Indian	12	0.66	0.59	0.35	-.70	5.90
	White	8,754	0.82	0.78	0.41	0.20	5.76
	Other	292	0.82	0.78	0.37	0.10	5.89
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	10,955	0.82	0.79	0.41	0.20	5.81
	Migrant	20	0.70	0.68	0.49	-.10	5.71
LEP	Non-LEP	10,593	0.82	0.78	0.41	0.20	5.79
	LEP	382	0.63	0.61	0.10	0.06	5.98
Economic Disadvantage	Free Lunch	5,338	0.79	0.75	0.33	0.16	5.84
	Reduced-Price Lunch	456	0.79	0.74	0.35	0.10	5.71
	Regular Lunch	5,181	0.83	0.79	0.43	0.21	5.74
IEP	Non-IEP	9,458	0.81	0.77	0.41	0.18	5.73
	IEP	1,517	0.70	0.66	0.18	0.10	5.94

Grade 11 Science, operational set #2

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	9,867	0.80	0.71	0.44	0.32	5.71
Gender	Female	5,027	0.79	0.69	0.42	0.31	5.70
	Male	4,840	0.82	0.74	0.46	0.35	5.67
Ethnicity	Hispanic	601	0.79	0.69	0.41	0.34	5.66
	Asian	207	0.85	0.78	0.47	0.43	5.80
	Native Hawaiian/Pacific Islander	12	0.77	0.59	0.56	0.55	6.45
	Black/African American	939	0.74	0.63	0.35	0.19	5.83
	American Indian	14	0.82	0.73	0.16	0.50	5.93
	White	7,810	0.80	0.71	0.43	0.32	5.68
	Other	283	0.78	0.69	0.34	0.28	5.70
	Missing	1
Migrant	Non-Migrant	9,839	0.80	0.71	0.44	0.32	5.71
	Migrant	28	0.67	0.61	0.07	-.31	6.28
LEP	Non-LEP	9,601	0.80	0.71	0.44	0.32	5.69
	LEP	266	0.71	0.59	0.24	0.23	6.04
Economic	Free Lunch	4,579	0.77	0.67	0.37	0.25	5.77

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
Disadvantage	Reduced-Price Lunch	409	0.79	0.70	0.39	0.24	5.63
	Regular Lunch	4,879	0.81	0.72	0.45	0.34	5.63
IEP	Non-IEP	9,302	0.80	0.71	0.43	0.31	5.68
	IEP	565	0.74	0.64	0.28	0.19	5.80

Grade 11 Science, operational set #3

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	9,788	0.83	0.79	0.38	0.23	5.75
Gender	Female	4,991	0.82	0.78	0.36	0.24	5.80
	Male	4,796	0.84	0.80	0.41	0.22	5.67
Ethnicity	Hispanic	545	0.82	0.77	0.38	0.21	5.71
	Asian	211	0.86	0.82	0.47	0.33	5.92
	Native Hawaiian/Pacific Islander	8	0.78	0.57	0.53	0.70	6.18
	Black/African American	901	0.79	0.73	0.29	0.12	5.81
	American Indian	10	0.83	0.70	0.65	0.26	4.93
	White	7,839	0.83	0.78	0.37	0.23	5.71
	Other	271	0.84	0.80	0.43	0.14	5.82
	Missing	3	--	--	--	--	--
Migrant	Non-Migrant	9,765	0.83	0.79	0.38	0.23	5.75
	Migrant	23	0.81	0.80	-0.37	-0.04	5.94
LEP	Non-LEP	9,540	0.83	0.79	0.38	0.23	5.73
	LEP	248	0.71	0.64	0.20	0.11	6.03
Economic Disadvantage	Free Lunch	4,623	0.80	0.76	0.33	0.13	5.77
	Reduced-Price Lunch	471	0.82	0.77	0.40	0.27	5.70
	Regular Lunch	4,694	0.84	0.79	0.38	0.28	5.71
IEP	Non-IEP	9,237	0.83	0.79	0.38	0.23	5.72
	IEP	551	0.72	0.66	0.25	0.00	5.95

Grade 11 Science, operational set #4

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	9,691	0.81	0.74	0.46	0.25	5.62
Gender	Female	5,108	0.80	0.72	0.45	0.25	5.60
	Male	4,582	0.82	0.75	0.47	0.25	5.60
Ethnicity	Hispanic	610	0.79	0.73	0.43	0.23	5.58
	Asian	199	0.86	0.80	0.49	0.39	5.83
	Native Hawaiian/Pacific Islander	11	0.81	0.70	0.64	-0.21	6.28
	Black/African American	855	0.73	0.64	0.41	0.11	5.67

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
	American Indian	13	0.82	0.81	-.03	-.30	5.68
	White	7,743	0.80	0.73	0.45	0.26	5.59
	Other	259	0.78	0.70	0.41	0.15	5.68
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	9,667	0.81	0.74	0.46	0.25	5.61
	Migrant	24	0.69	0.66	0.28	-.10	5.58
LEP	Non-LEP	9,426	0.80	0.73	0.45	0.25	5.60
	LEP	265	0.72	0.63	0.46	0.04	5.66
Economic Disadvantage	Free Lunch	4,562	0.78	0.70	0.45	0.17	5.63
	Reduced-Price Lunch	436	0.78	0.71	0.43	0.23	5.59
	Regular Lunch	4,693	0.81	0.74	0.43	0.29	5.55
IEP	Non-IEP	9,107	0.80	0.73	0.45	0.26	5.60
	IEP	584	0.72	0.65	0.33	-.05	5.63

Grade 5 Social Studies

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	50,535	0.90	0.88	0.67	5.55
Gender	Female	24,933	0.89	0.87	0.67	5.65
	Male	25,600	0.90	0.89	0.67	5.43
Ethnicity	Hispanic	3,911	0.88	0.86	0.64	5.36
	Asian	845	0.91	0.91	0.72	6.27
	Native Hawaiian/Pacific Islander	79	0.91	0.90	0.74	5.70
	Black/African American	5,248	0.88	0.87	0.68	5.26
	American Indian	63	0.88	0.87	0.46	5.30
	White	38,108	0.89	0.88	0.65	5.57
	Other	2,276	0.89	0.87	0.65	5.42
	Missing	5	0.88	0.85	0.92	5.59
Migrant	Non-Migrant	50,300	0.90	0.88	0.67	5.55
	Migrant	235	0.87	0.84	0.65	5.23
LEP	Non-LEP	48,027	0.89	0.88	0.66	5.55
	LEP	2,508	0.88	0.86	0.70	5.51
Economic Disadvantage	Free Lunch	29,653	0.89	0.87	0.65	5.35
	Reduced-Price Lunch	2,010	0.88	0.87	0.66	5.54
	Regular Lunch	18,872	0.88	0.87	0.63	5.79
IEP	Non-IEP	42,820	0.89	0.87	0.64	5.61
	IEP	7,715	0.90	0.88	0.74	5.33

Grade 8 Social Studies

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,173	0.91	0.90	0.69	5.63
Gender	Female	23,697	0.90	0.89	0.67	5.72

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Male	24,476	0.91	0.91	0.69	5.50
Ethnicity	Hispanic	3,190	0.90	0.89	0.70	5.53
	Asian	864	0.92	0.91	0.77	6.05
	Native Hawaiian/Pacific Islander	65	0.91	0.90	0.74	5.70
	Black/African American	4,853	0.89	0.88	0.72	5.49
	American Indian	55	0.92	0.92	0.73	5.37
	White	37,317	0.90	0.90	0.67	5.63
	Other	1,826	0.90	0.89	0.65	5.54
	Missing	3	0.63	0.68	0.00	4.40
Migrant	Non-Migrant	48,010	0.91	0.90	0.69	5.63
	Migrant	163	0.88	0.87	0.74	5.41
LEP	Non-LEP	46,260	0.91	0.90	0.68	5.63
	LEP	1,913	0.90	0.88	0.77	5.58
Economic Disadvantage	Free Lunch	26,319	0.90	0.89	0.68	5.48
	Reduced-Price Lunch	1,967	0.90	0.89	0.66	5.55
	Regular Lunch	19,887	0.90	0.89	0.66	5.77
IEP	Non-IEP	42,882	0.90	0.90	0.66	5.66
	IEP	5,291	0.89	0.88	0.71	5.35

Subdomain (Reporting Category)

Grade 3 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	45,756	0.87	0.59	0.65	0.68	0.59
Gender	Female	22,291	0.86	0.58	0.65	0.67	0.58
	Male	23,462	0.87	0.60	0.66	0.68	0.61
Ethnicity	Hispanic	3,506	0.85	0.57	0.62	0.64	0.56
	Asian	861	0.88	0.59	0.70	0.71	0.56
	Native Hawaiian/Pacific Islander	63	0.82	0.52	0.64	0.58	0.40
	Black/African American	4,547	0.87	0.62	0.64	0.65	0.62
	American Indian	51	0.87	0.57	0.62	0.68	0.60
	White	34,580	0.86	0.57	0.63	0.67	0.57
	Other	2,144	0.87	0.61	0.66	0.66	0.59
	Missing	4	--	--	--	--	--
Migrant	Non-Migrant	45,523	0.87	0.59	0.65	0.68	0.59
	Migrant	233	0.84	0.60	0.54	0.57	0.59
LEP	Non-LEP	42,640	0.87	0.59	0.65	0.68	0.60
	LEP	3,116	0.84	0.57	0.60	0.61	0.54
Economic Disadvantage	Free Lunch	27,088	0.86	0.60	0.64	0.66	0.60
	Reduced-Price Lunch	1,896	0.86	0.56	0.62	0.65	0.55
	Regular Lunch	16,772	0.85	0.53	0.62	0.65	0.53
IEP	Non-IEP	37,265	0.86	0.56	0.64	0.66	0.56
	IEP	8,491	0.88	0.63	0.65	0.68	0.63

Grade 4 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	47,524	0.84	0.62	0.48	0.58	0.54
Gender	Female	23,746	0.84	0.62	0.47	0.60	0.52
	Male	23,775	0.84	0.63	0.49	0.57	0.56
Ethnicity	Hispanic	3,608	0.82	0.59	0.46	0.54	0.52
	Asian	794	0.85	0.65	0.56	0.61	0.53
	Native Hawaiian/Pacific Islander	61	0.80	0.59	0.37	0.40	0.55
	Black/African American	4,621	0.83	0.61	0.45	0.56	0.54
	American Indian	51	0.80	0.63	0.44	0.59	0.34
	White	36,183	0.83	0.61	0.47	0.58	0.52
	Other	2,203	0.83	0.62	0.47	0.57	0.52
	Missing	3	--	--	--	--	--
Migrant	Non-Migrant	47,286	0.84	0.62	0.48	0.58	0.54
	Migrant	238	0.77	0.55	0.46	0.48	0.46
LEP	Non-LEP	44,662	0.84	0.62	0.48	0.58	0.53
	LEP	2,862	0.80	0.56	0.40	0.51	0.49
Economic	Free Lunch	27,812	0.82	0.61	0.45	0.55	0.53

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
Disadvantage	Reduced-Price Lunch	1,949	0.82	0.59	0.45	0.56	0.48
	Regular Lunch	17,763	0.82	0.59	0.47	0.58	0.50
IEP	Non-IEP	39,964	0.83	0.60	0.47	0.58	0.50
	IEP	7,560	0.86	0.66	0.48	0.58	0.61

Grade 5 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	50,407	0.84	0.62	0.54	0.56	0.60
Gender	Female	24,914	0.84	0.60	0.53	0.54	0.60
	Male	25,491	0.85	0.64	0.56	0.58	0.61
Ethnicity	Hispanic	3,900	0.83	0.61	0.53	0.51	0.55
	Asian	849	0.87	0.67	0.59	0.58	0.67
	Native Hawaiian/Pacific Islander	77	0.87	0.77	0.52	0.60	0.62
	Black/African American	5,196	0.84	0.65	0.51	0.54	0.57
	American Indian	62	0.84	0.55	0.54	0.54	0.66
	White	38,038	0.84	0.60	0.53	0.55	0.60
	Other	2,280	0.84	0.62	0.53	0.55	0.58
	Missing	5	--	--	--	--	--
Migrant	Non-Migrant	50,172	0.84	0.62	0.54	0.56	0.60
	Migrant	235	0.82	0.60	0.47	0.55	0.51
LEP	Non-LEP	47,879	0.84	0.62	0.54	0.56	0.60
	LEP	2,528	0.83	0.65	0.51	0.52	0.51
Economic Disadvantage	Free Lunch	29,584	0.83	0.62	0.52	0.54	0.57
	Reduced-Price Lunch	2,007	0.82	0.59	0.49	0.53	0.57
	Regular Lunch	18,816	0.82	0.56	0.53	0.53	0.59
IEP	Non-IEP	42,679	0.83	0.58	0.52	0.54	0.59
	IEP	7,728	0.86	0.67	0.57	0.59	0.61

Grade 6 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	50,100	0.88	0.67	0.64	0.67	0.62
Gender	Female	24,835	0.87	0.66	0.63	0.65	0.60
	Male	25,263	0.88	0.69	0.64	0.68	0.63
Ethnicity	Hispanic	3,676	0.87	0.65	0.64	0.65	0.61
	Asian	845	0.89	0.69	0.66	0.69	0.67
	Native Hawaiian/Pacific Islander	72	0.88	0.61	0.65	0.72	0.60
	Black/African American	5,158	0.87	0.62	0.64	0.67	0.59
	American Indian	61	0.88	0.65	0.70	0.64	0.59
	White	38,060	0.87	0.67	0.63	0.65	0.60
	Other	2,223	0.87	0.64	0.64	0.66	0.62

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
	Missing	5	--	--	--	--	--
Migrant	Non-Migrant	49,888	0.88	0.67	0.64	0.67	0.62
	Migrant	212	0.87	0.63	0.64	0.68	0.54
LEP	Non-LEP	47,989	0.88	0.67	0.64	0.66	0.61
	LEP	2,111	0.87	0.62	0.65	0.67	0.59
Economic Disadvantage	Free Lunch	28,874	0.87	0.65	0.63	0.66	0.60
	Reduced-Price Lunch	2,121	0.87	0.65	0.63	0.64	0.59
	Regular Lunch	19,105	0.86	0.66	0.60	0.63	0.58
IEP	Non-IEP	43,431	0.87	0.66	0.62	0.65	0.60
	IEP	6,669	0.87	0.64	0.61	0.68	0.62

Grade 7 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,499	0.86	0.62	0.66	0.49	0.62
Gender	Female	23,785	0.86	0.62	0.66	0.48	0.61
	Male	24,714	0.86	0.62	0.66	0.49	0.64
Ethnicity	Hispanic	3,503	0.85	0.62	0.65	0.47	0.60
	Asian	856	0.88	0.68	0.70	0.51	0.65
	Native Hawaiian/Pacific Islander	46	0.85	0.57	0.66	0.47	0.58
	Black/African American	4,721	0.85	0.62	0.64	0.49	0.59
	American Indian	71	0.88	0.71	0.67	0.48	0.67
	White	37,337	0.85	0.60	0.65	0.48	0.61
	Other	1,963	0.85	0.61	0.64	0.47	0.60
	Missing	2	--	--	--	--	--
Migrant	Non-Migrant	48,304	0.86	0.62	0.66	0.49	0.62
	Migrant	195	0.81	0.49	0.50	0.50	0.51
LEP	Non-LEP	46,511	0.86	0.61	0.66	0.48	0.62
	LEP	1,988	0.86	0.65	0.65	0.51	0.59
Economic Disadvantage	Free Lunch	27,140	0.85	0.61	0.64	0.47	0.60
	Reduced-Price Lunch	2,028	0.84	0.57	0.61	0.47	0.59
	Regular Lunch	19,331	0.84	0.57	0.62	0.45	0.58
IEP	Non-IEP	42,719	0.85	0.59	0.63	0.46	0.60
	IEP	5,780	0.86	0.62	0.64	0.49	0.62

Grade 8 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,134	0.87	0.71	0.65	0.48	0.65
Gender	Female	23,712	0.86	0.69	0.63	0.47	0.65
	Male	24,422	0.87	0.71	0.65	0.49	0.65
Ethnicity	Hispanic	3,198	0.87	0.70	0.64	0.43	0.65

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
	Asian	865	0.88	0.71	0.69	0.48	0.69
	Native Hawaiian/Pacific Islander	63	0.89	0.71	0.74	0.58	0.66
	Black/African American	4,864	0.87	0.71	0.67	0.43	0.64
	American Indian	55	0.87	0.68	0.69	0.36	0.67
	White	37,268	0.87	0.69	0.63	0.48	0.64
	Other	1,817	0.86	0.69	0.63	0.46	0.62
	Missing	4	0.90	0.41	0.69	0.54	0.80
Migrant	Non-Migrant	47,966	0.87	0.71	0.65	0.48	0.65
	Migrant	168	0.85	0.70	0.62	0.38	0.60
LEP	Non-LEP	46,208	0.87	0.70	0.64	0.48	0.65
	LEP	1,926	0.87	0.71	0.67	0.44	0.62
Economic Disadvantage	Free Lunch	26,291	0.86	0.70	0.63	0.44	0.63
	Reduced-Price Lunch	1,967	0.86	0.69	0.61	0.47	0.64
	Regular Lunch	19,876	0.85	0.66	0.60	0.48	0.61
IEP	Non-IEP	42,835	0.86	0.68	0.62	0.47	0.63
	IEP	5,299	0.85	0.69	0.61	0.40	0.60

Grade 3 Mathematics

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
All	Students Tested	46,542	0.91	0.72	0.74	0.75	0.70
Gender	Female	22,682	0.91	0.72	0.74	0.74	0.69
	Male	23,856	0.91	0.73	0.74	0.76	0.71
Ethnicity	Hispanic	3,567	0.90	0.72	0.73	0.72	0.68
	Asian	865	0.92	0.74	0.78	0.76	0.73
	Native Hawaiian/Pacific Islander	65	0.89	0.64	0.78	0.64	0.69
	Black/African American	4,729	0.90	0.73	0.72	0.73	0.66
	American Indian	51	0.89	0.70	0.63	0.78	0.66
	White	35,061	0.91	0.71	0.73	0.74	0.69
	Other	2,199	0.90	0.70	0.73	0.75	0.70
Migrant	Non-Migrant	46,309	0.91	0.72	0.74	0.75	0.70
	Migrant	233	0.88	0.69	0.73	0.67	0.62
LEP	Non-LEP	43,424	0.91	0.72	0.74	0.75	0.70
	LEP	3,118	0.90	0.72	0.74	0.72	0.68
Economic Disadvantage	Free Lunch	27,570	0.90	0.71	0.73	0.73	0.68
	Reduced-Price Lunch	1,930	0.90	0.69	0.72	0.73	0.67
	Regular Lunch	17,042	0.90	0.69	0.72	0.73	0.68
IEP	Non-IEP	38,068	0.90	0.70	0.73	0.73	0.68
	IEP	8,474	0.91	0.73	0.74	0.76	0.71

Grade 4 Mathematics

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
All	Students Tested	48,674	0.91	0.64	0.74	0.74	0.75
Gender	Female	24,027	0.90	0.63	0.73	0.71	0.73
	Male	24,644	0.91	0.65	0.75	0.76	0.76
Ethnicity	Hispanic	3,687	0.89	0.59	0.72	0.71	0.70
	Asian	810	0.93	0.70	0.78	0.78	0.81
	Native Hawaiian/Pacific Islander	66	0.90	0.63	0.75	0.67	0.74
	Black/African American	4,989	0.89	0.58	0.72	0.70	0.68
	American Indian	54	0.92	0.66	0.75	0.73	0.82
	White	36,806	0.90	0.63	0.73	0.73	0.75
	Other	2,259	0.90	0.62	0.71	0.72	0.73
	Missing	3	--	--	--	--	--
Migrant	Non-Migrant	48,428	0.91	0.64	0.74	0.74	0.75
	Migrant	246	0.88	0.58	0.70	0.67	0.67
LEP	Non-LEP	45,685	0.91	0.64	0.74	0.74	0.75
	LEP	2,989	0.89	0.59	0.73	0.70	0.69
Economic Disadvantage	Free Lunch	28,759	0.89	0.61	0.72	0.70	0.71
	Reduced-Price Lunch	1,991	0.90	0.62	0.73	0.73	0.73
	Regular Lunch	17,924	0.90	0.62	0.73	0.73	0.75
IEP	Non-IEP	40,682	0.90	0.62	0.73	0.73	0.74
	IEP	7,992	0.90	0.67	0.72	0.72	0.74

Grade 5 Mathematics

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
All	Students Tested	49,393	0.91	0.72	0.75	0.71	0.75
Gender	Female	24,393	0.91	0.70	0.74	0.70	0.73
	Male	24,998	0.92	0.73	0.76	0.73	0.76
Ethnicity	Hispanic	3,807	0.90	0.69	0.72	0.66	0.71
	Asian	833	0.93	0.74	0.78	0.76	0.77
	Native Hawaiian/Pacific Islander	74	0.93	0.79	0.78	0.72	0.78
	Black/African American	5,050	0.89	0.70	0.72	0.60	0.70
	American Indian	61	0.90	0.76	0.69	0.64	0.70
	White	37,357	0.91	0.71	0.75	0.71	0.74
	Other	2,206	0.91	0.71	0.74	0.69	0.73

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
	Missing	5	--	--	--	--	--
Migrant	Non-Migrant	49,155	0.91	0.72	0.75	0.71	0.75
	Migrant	238	0.90	0.71	0.74	0.56	0.71
LEP	Non-LEP	46,904	0.91	0.72	0.75	0.71	0.75
	LEP	2,489	0.90	0.70	0.74	0.66	0.72
Economic Disadvantage	Free Lunch	28,922	0.90	0.70	0.73	0.66	0.72
	Reduced-Price Lunch	1,954	0.90	0.70	0.73	0.69	0.73
	Regular Lunch	18,517	0.91	0.70	0.74	0.72	0.73
IEP	Non-IEP	41,758	0.91	0.70	0.75	0.72	0.73
	IEP	7,635	0.90	0.71	0.72	0.63	0.75

Grade 6 Mathematics

	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
All	Students Tested	49,434	0.91	0.66	0.61	0.71	0.75	0.62
Gender	Female	24,591	0.90	0.65	0.61	0.70	0.73	0.61
	Male	24,841	0.91	0.66	0.61	0.71	0.76	0.63
Ethnicity	Hispanic	3,584	0.89	0.62	0.58	0.66	0.70	0.58
	Asian	840	0.93	0.70	0.64	0.79	0.80	0.65
	Native Hawaiian/Pacific Islander	71	0.89	0.66	0.57	0.67	0.62	0.56
	Black/African American	5,045	0.87	0.59	0.60	0.59	0.61	0.57
	American Indian	61	0.94	0.70	0.70	0.86	0.75	0.75
	White	37,637	0.91	0.65	0.60	0.71	0.75	0.61
	Other	2,191	0.90	0.64	0.61	0.68	0.72	0.58
	Missing	5	0.86	0.66	0.62	0.66	-0.12	0.66
Migrant	Non-Migrant	49,229	0.91	0.66	0.61	0.71	0.75	0.62
	Migrant	205	0.87	0.60	0.58	0.61	0.67	0.50
LEP	Non-LEP	47,368	0.91	0.66	0.61	0.71	0.75	0.62
	LEP	2,066	0.90	0.64	0.60	0.66	0.68	0.61
Economic Disadvantage	Free Lunch	28,433	0.89	0.63	0.59	0.65	0.69	0.59
	Reduced-Price Lunch	2,082	0.90	0.65	0.60	0.68	0.74	0.61
	Regular Lunch	18,919	0.91	0.65	0.59	0.73	0.77	0.59
IEP	Non-IEP	42,859	0.90	0.64	0.60	0.70	0.75	0.60
	IEP	6,575	0.89	0.63	0.60	0.63	0.66	0.60

Grade 7 Mathematics

	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
All	Students Tested	48,425	0.90	0.68	0.65	0.61	0.64	0.67
Gender	Female	23,712	0.90	0.67	0.65	0.59	0.63	0.65
	Male	24,713	0.91	0.69	0.66	0.64	0.65	0.68
Ethnicity	Hispanic	3,480	0.88	0.63	0.59	0.57	0.59	0.62
	Asian	853	0.92	0.75	0.74	0.61	0.69	0.72
	Native Hawaiian/Pacific Islander	50	0.89	0.61	0.58	0.52	0.73	0.61
	Black/African American	4,719	0.87	0.61	0.54	0.59	0.53	0.61
	American Indian	69	0.90	0.71	0.62	0.57	0.66	0.67
	White	37,295	0.90	0.68	0.65	0.61	0.64	0.66
	Other	1,957	0.89	0.66	0.63	0.61	0.60	0.65
	Missing	2	--	--	--	--	--	--
Migrant	Non-Migrant	48,236	0.90	0.68	0.65	0.61	0.64	0.67
	Migrant	189	0.82	0.52	0.54	0.51	0.45	0.58
LEP	Non-LEP	46,434	0.90	0.68	0.65	0.61	0.64	0.66
	LEP	1,991	0.90	0.67	0.63	0.63	0.62	0.64
Economic Disadvantage	Free Lunch	27,081	0.88	0.62	0.59	0.58	0.58	0.62
	Reduced-Price Lunch	2,033	0.89	0.64	0.63	0.59	0.62	0.63
	Regular Lunch	19,311	0.90	0.68	0.67	0.60	0.65	0.65
IEP	Non-IEP	42,661	0.90	0.67	0.66	0.60	0.63	0.65
	IEP	5,764	0.86	0.57	0.55	0.59	0.53	0.58

Grade 8 Mathematics

	Test Group	N	Alpha	The Number System and Expressions & Equations	Functions	Geometry	Statistics and Probability
All	Students Tested	47,020	0.90	0.77	0.61	0.76	0.62
Gender	Female	23,224	0.90	0.76	0.59	0.74	0.60
	Male	23,796	0.91	0.78	0.62	0.77	0.64
Ethnicity	Hispanic	3,105	0.89	0.74	0.58	0.74	0.56
	Asian	854	0.93	0.83	0.71	0.80	0.65
	Native Hawaiian/Pacific Islander	63	0.89	0.79	0.62	0.66	0.52
	Black/African American	4,660	0.88	0.71	0.55	0.70	0.55
	American Indian	52	0.90	0.74	0.69	0.70	0.61
	White	36,521	0.90	0.77	0.60	0.76	0.61
	Other	1,762	0.90	0.76	0.60	0.73	0.60
	Missing	3	--	--	--	--	--

	Test Group	N	Alpha	The Number System and Expressions & Equations	Functions	Geometry	Statistics and Probability
Migrant	Non-Migrant	46,855	0.90	0.77	0.61	0.76	0.62
	Migrant	165	0.84	0.64	0.46	0.69	0.43
LEP	Non-LEP	45,127	0.90	0.77	0.61	0.76	0.62
	LEP	1,893	0.89	0.75	0.61	0.75	0.56
Economic Disadvantage	Free Lunch	25,584	0.89	0.73	0.55	0.73	0.57
	Reduced-Price Lunch	1,923	0.90	0.76	0.61	0.74	0.60
	Regular Lunch	19,513	0.90	0.77	0.61	0.75	0.61
IEP	Non-IEP	41,807	0.90	0.77	0.60	0.75	0.61
	IEP	5,213	0.87	0.70	0.50	0.69	0.54

Grade 4 Science, operational set #1

	Test Group	N	Alpha	Life Science	Physical Science	Earth and Space Science	Engineering Design
All	Students Tested	24,318	0.80	0.51	0.51	0.64	0.18
Gender	Female	12,058	0.79	0.49	0.48	0.63	0.16
	Male	12,259	0.81	0.52	0.53	0.64	0.20
Ethnicity	Hispanic	1,844	0.77	0.48	0.47	0.60	0.14
	Asian	388	0.82	0.56	0.53	0.66	0.27
	Native Hawaiian/Pacific Islander	34	0.74	0.55	0.46	0.55	0.34
	Black/African American	2,470	0.78	0.51	0.47	0.62	0.10
	American Indian	26	0.67	0.54	0.41	0.34	-0.02
	White	18,378	0.78	0.49	0.49	0.62	0.19
	Other	1,177	0.78	0.45	0.50	0.62	0.16
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	24,187	0.80	0.51	0.51	0.64	0.18
	Migrant	131	0.76	0.40	0.40	0.63	0.18
LEP	Non-LEP	22,869	0.79	0.50	0.51	0.64	0.18
	LEP	1,449	0.75	0.43	0.43	0.58	0.14
Economic Disadvantage	Free Lunch	14,380	0.78	0.49	0.48	0.62	0.15
	Reduced-Price Lunch	974	0.79	0.45	0.50	0.62	0.07
	Regular Lunch	8,964	0.78	0.48	0.49	0.60	0.23
IEP	Non-IEP	20,314	0.79	0.48	0.50	0.62	0.17
	IEP	4,004	0.82	0.56	0.54	0.66	0.23

Grade 4 Science, operational set #2

	Test Group	N	Alpha	Life Science	Physical Science	Earth and Space Science	Engineering Design ¹¹
All	Students Tested	23,952	0.76	0.25	0.53	0.57	--
Gender	Female	11,906	0.75	0.24	0.50	0.57	--
	Male	12,044	0.77	0.25	0.55	0.58	--
Ethnicity	Hispanic	1,823	0.72	0.26	0.44	0.53	--
	Asian	413	0.80	0.25	0.59	0.64	--
	Native Hawaiian/Pacific Islander	29	0.78	0.26	0.58	0.61	--
	Black/African American	2,470	0.72	0.21	0.43	0.52	--
	American Indian	28	0.81	0.47	0.47	0.65	--
	White	18,118	0.75	0.24	0.52	0.56	--
	Other	1,069	0.75	0.22	0.50	0.57	--
	Missing	2	--	--	--	--	--
Migrant	Non-Migrant	23,838	0.76	0.25	0.53	0.57	--
	Migrant	114	0.69	0.09	0.31	0.52	--
LEP	Non-LEP	22,442	0.76	0.25	0.53	0.57	--
	LEP	1,510	0.69	0.23	0.37	0.52	--
Economic Disadvantage	Free Lunch	14,082	0.74	0.24	0.47	0.55	--
	Reduced-Price Lunch	1,008	0.74	0.24	0.51	0.54	--
	Regular Lunch	8,862	0.75	0.23	0.54	0.55	--
IEP	Non-IEP	20,151	0.75	0.25	0.52	0.56	--
	IEP	3,801	0.78	0.24	0.54	0.62	--

Grade 7 Science, operational set #1

	Test Group	N	Alpha	Life Science	Physical Science	Earth and Space Science	Engineering Design
All	Students Tested	24,091	0.79	0.58	0.54	0.46	0.42
Gender	Female	11,831	0.78	0.54	0.52	0.44	0.39
	Male	12,260	0.81	0.61	0.56	0.47	0.45
Ethnicity	Hispanic	1,791	0.77	0.54	0.47	0.43	0.41
	Asian	440	0.83	0.64	0.60	0.52	0.45
	Native Hawaiian/Pacific Islander	23	0.75	0.63	0.35	0.35	0.06
	Black/African American	2,322	0.72	0.43	0.44	0.38	0.43
	American Indian	39	0.82	0.62	0.57	0.44	0.47
	White	18,535	0.79	0.58	0.54	0.46	0.40
	Other	941	0.77	0.55	0.52	0.44	0.40
	Missing	--	--	--	--	--	--
Migrant	Non-Migrant	23,989	0.79	0.58	0.54	0.46	0.42

¹¹ Insufficient data corresponding to this subject category in the operational set.

	Test Group	N	Alpha	Life Science	Physical Science	Earth and Space Science	Engineering Design
	Migrant	102	0.45	0.05	0.14	0.29	0.03
LEP	Non-LEP	23,003	0.79	0.58	0.54	0.46	0.42
	LEP	1,088	0.78	0.55	0.49	0.41	0.42
Economic Disadvantage	Free Lunch	13,496	0.75	0.52	0.45	0.42	0.42
	Reduced-Price Lunch	998	0.77	0.56	0.51	0.43	0.41
	Regular Lunch	9,597	0.80	0.59	0.58	0.46	0.36
IEP	Non-IEP	20,934	0.79	0.58	0.54	0.46	0.40
	IEP	3,157	0.72	0.46	0.42	0.37	0.41

Grade 7 Science, operational set #2

	Test Group	N	Alpha	Life Science	Physical Science	Earth and Space Science	Engineering Design
All	Students Tested	23,141	0.80	0.57	0.51	0.34	0.45
Gender	Female	11,500	0.79	0.56	0.48	0.34	0.43
	Male	11,640	0.81	0.58	0.55	0.35	0.47
Ethnicity	Hispanic	1,629	0.75	0.54	0.44	0.27	0.36
	Asian	406	0.84	0.62	0.62	0.39	0.53
	Native Hawaiian/Pacific Islander	24	0.72	0.26	0.46	0.31	0.42
	Black/African American	2,202	0.72	0.46	0.41	0.27	0.34
	American Indian	32	0.83	0.60	0.64	0.47	0.30
	White	17,869	0.80	0.57	0.51	0.35	0.45
	Other	976	0.78	0.52	0.54	0.33	0.42
	Missing	3	--	--	--	--	--
Migrant	Non-Migrant	23,056	0.80	0.57	0.51	0.35	0.45
	Migrant	85	0.56	0.28	0.32	0.12	0.21
LEP	Non-LEP	22,282	0.79	0.57	0.51	0.34	0.45
	LEP	859	0.79	0.54	0.52	0.34	0.42
Economic Disadvantage	Free Lunch	12,761	0.76	0.52	0.45	0.29	0.41
	Reduced-Price Lunch	989	0.77	0.58	0.45	0.31	0.40
	Regular Lunch	9,391	0.80	0.58	0.53	0.35	0.45
IEP	Non-IEP	20,791	0.79	0.57	0.51	0.35	0.44
	IEP	2,350	0.74	0.51	0.42	0.23	0.46

Grade 11 Science, operational set #1

	Test Group	N	Alpha	Life Science	Physical Science	Earth and Space Science	Engineering Design
All	Students Tested	10,975	0.82	0.63	0.48	0.54	0.49
Gender	Female	5,465	0.81	0.61	0.42	0.54	0.50
	Male	5,510	0.83	0.65	0.53	0.55	0.49
Ethnicity	Hispanic	646	0.78	0.61	0.36	0.46	0.43
	Asian	234	0.87	0.69	0.61	0.64	0.48
	Native Hawaiian/Pacific Islander	17	0.82	0.52	0.62	0.54	0.26
	Black/African American	1,019	0.75	0.58	0.32	0.46	0.42
	American Indian	12	0.66	0.29	-0.92	0.31	0.47
	White	8,754	0.82	0.63	0.48	0.54	0.50
	Other	292	0.82	0.62	0.45	0.54	0.45
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	10,955	0.82	0.63	0.48	0.54	0.50
	Migrant	20	0.70	0.67	0.05	0.43	0.28
LEP	Non-LEP	10,593	0.82	0.63	0.48	0.54	0.49
	LEP	382	0.63	0.49	0.11	0.26	0.21
Economic Disadvantage	Free Lunch	5,338	0.79	0.61	0.36	0.49	0.46
	Reduced-Price Lunch	456	0.79	0.60	0.38	0.50	0.46
	Regular Lunch	5,181	0.83	0.62	0.53	0.55	0.50
IEP	Non-IEP	9,458	0.81	0.61	0.49	0.53	0.48
	IEP	1,517	0.70	0.53	0.17	0.41	0.36

Grade 11 Science, operational set #2

	Test Group	N	Alpha	Life Science	Physical Science	Earth and Space Science	Engineering Design
All	Students Tested	9,867	0.80	0.63	0.45	0.50	0.34
Gender	Female	5,027	0.79	0.61	0.40	0.50	0.31
	Male	4,840	0.82	0.66	0.49	0.51	0.37
Ethnicity	Hispanic	601	0.79	0.60	0.45	0.46	0.28
	Asian	207	0.85	0.72	0.58	0.58	0.31
	Native Hawaiian/Pacific Islander	12	0.77	0.70	0.27	0.31	0.47
	Black/African American	939	0.74	0.56	0.39	0.36	0.18
	American Indian	14	0.82	0.42	0.51	0.55	0.47
	White	7,810	0.80	0.63	0.44	0.50	0.35
	Other	283	0.78	0.61	0.33	0.47	0.28
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	9,839	0.80	0.63	0.45	0.50	0.34
	Migrant	28	0.67	0.39	0.12	0.11	-0.11

	Test Group	N	Alpha	Life Science	Physical Science	Earth and Space Science	Engineering Design
LEP	Non-LEP	9,601	0.80	0.63	0.45	0.50	0.34
	LEP	266	0.71	0.49	0.42	0.28	0.07
Economic Disadvantage	Free Lunch	4,579	0.77	0.60	0.41	0.44	0.28
	Reduced-Price Lunch	409	0.79	0.63	0.39	0.48	0.30
	Regular Lunch	4,879	0.81	0.63	0.45	0.51	0.35
IEP	Non-IEP	9,302	0.80	0.63	0.44	0.50	0.34
	IEP	565	0.74	0.57	0.38	0.40	0.18

Grade 11 Science, operational set #3

	Test Group	N	Alpha	Life Science	Physical Science	Earth and Space Science	Engineering Design
All	Students Tested	9,788	0.83	0.75	0.40	0.52	0.34
Gender	Female	4,991	0.82	0.74	0.37	0.53	0.32
	Male	4,796	0.84	0.76	0.44	0.51	0.37
Ethnicity	Hispanic	545	0.82	0.73	0.37	0.50	0.27
	Asian	211	0.86	0.78	0.51	0.48	0.37
	Native Hawaiian/Pacific Islander	8	--	--	--	--	--
	Black/African American	901	0.79	0.67	0.29	0.48	0.25
	American Indian	10	0.83	0.70	0.16	0.71	0.13
	White	7,839	0.83	0.75	0.39	0.51	0.34
	Other	271	0.84	0.77	0.38	0.58	0.38
	Missing	3	--	--	--	--	--
Migrant	Non-Migrant	9,765	0.83	0.75	0.40	0.52	0.34
	Migrant	23	0.81	0.62	0.54	0.26	0.13
LEP	Non-LEP	9,540	0.83	0.75	0.40	0.51	0.34
	LEP	248	0.71	0.53	0.36	0.31	-0.03
Economic Disadvantage	Free Lunch	4,623	0.80	0.72	0.34	0.47	0.29
	Reduced-Price Lunch	471	0.82	0.74	0.41	0.50	0.31
	Regular Lunch	4,694	0.84	0.75	0.41	0.52	0.35
IEP	Non-IEP	9,237	0.83	0.75	0.39	0.51	0.34
	IEP	551	0.72	0.63	0.19	0.40	0.17

Grade 11 Science, operational set #4

	Test Group	N	Alpha	Life Science	Physical Science	Earth and Space Science	Engineering Design
All	Students Tested	9,691	0.81	0.60	0.43	0.51	0.47
Gender	Female	5,108	0.80	0.59	0.38	0.50	0.48
	Male	4,582	0.82	0.62	0.48	0.51	0.47
Ethnicity	Hispanic	610	0.79	0.59	0.40	0.46	0.47
	Asian	199	0.86	0.72	0.54	0.59	0.51
	Native Hawaiian/Pacific Islander	11	0.81	0.23	0.63	0.62	-.45
	Black/African American	855	0.73	0.47	0.37	0.42	0.36
	American Indian	13	0.82	0.73	0.29	0.35	0.06
	White	7,743	0.80	0.60	0.43	0.50	0.48
	Other	259	0.78	0.54	0.39	0.51	0.45
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	9,667	0.81	0.60	0.43	0.51	0.47
	Migrant	24	0.69	0.06	0.63	0.25	-.02
LEP	Non-LEP	9,426	0.80	0.60	0.43	0.50	0.47
	LEP	265	0.72	0.51	0.34	0.29	0.37
Economic Disadvantage	Free Lunch	4,562	0.78	0.56	0.37	0.47	0.43
	Reduced-Price Lunch	436	0.78	0.59	0.35	0.42	0.45
	Regular Lunch	4,693	0.81	0.61	0.46	0.50	0.48
IEP	Non-IEP	9,107	0.80	0.60	0.43	0.50	0.47
	IEP	584	0.72	0.46	0.37	0.36	0.46

Grade 5 Social Studies

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
All	Students Tested	50,535	0.90	0.67	0.57	0.65	0.50	0.73
Gender	Female	24,933	0.89	0.65	0.56	0.63	0.46	0.69
	Male	25,600	0.90	0.68	0.58	0.67	0.54	0.75
Ethnicity	Hispanic	3,911	0.88	0.64	0.54	0.63	0.46	0.68
	Asian	845	0.91	0.71	0.59	0.70	0.58	0.78
	Native Hawaiian/Pacific Islander	79	0.91	0.74	0.60	0.67	0.66	0.69
	Black/African American	5,248	0.88	0.62	0.57	0.64	0.47	0.69
	American Indian	63	0.88	0.65	0.49	0.70	0.38	0.61
	White	38,108	0.89	0.66	0.55	0.63	0.48	0.72
	Other	2,276	0.89	0.65	0.56	0.64	0.49	0.70
	Missing	5	--	--	--	--	--	--
Migrant	Non-Migrant	50,300	0.90	0.67	0.57	0.65	0.50	0.73
	Migrant	235	0.87	0.57	0.56	0.58	0.42	0.65

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
LEP	Non-LEP	48,027	0.89	0.67	0.56	0.65	0.50	0.73
	LEP	2,508	0.88	0.64	0.54	0.64	0.47	0.68
Economic Disadvantage	Free Lunch	29,653	0.89	0.64	0.56	0.65	0.48	0.70
	Reduced-Price Lunch	2,010	0.88	0.65	0.55	0.62	0.43	0.71
	Regular Lunch	18,872	0.88	0.66	0.52	0.60	0.48	0.72
IEP	Non-IEP	42,820	0.89	0.66	0.54	0.63	0.46	0.71
	IEP	7,715	0.90	0.65	0.60	0.67	0.55	0.71

Grade 8 Social Studies

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
All	Students Tested	48,173	0.91	0.70	0.58	0.60	0.59	0.76
Gender	Female	23,697	0.90	0.68	0.56	0.59	0.57	0.74
	Male	24,476	0.91	0.72	0.62	0.62	0.60	0.78
Ethnicity	Hispanic	3,190	0.90	0.65	0.56	0.59	0.58	0.73
	Asian	864	0.92	0.74	0.60	0.66	0.61	0.78
	Native Hawaiian/Pacific Islander	65	0.91	0.68	0.65	0.63	0.58	0.79
	Black/African American	4,853	0.89	0.64	0.57	0.59	0.54	0.70
	American Indian	55	0.92	0.76	0.60	0.70	0.53	0.79
	White	37,317	0.90	0.70	0.57	0.58	0.57	0.76
	Other	1,826	0.90	0.68	0.57	0.57	0.55	0.74
	Missing	3	--	--	--	--	--	--
Migrant	Non-Migrant	48,010	0.91	0.70	0.58	0.60	0.59	0.76
	Migrant	163	0.88	0.60	0.51	0.56	0.49	0.69
LEP	Non-LEP	46,260	0.91	0.70	0.58	0.60	0.58	0.76
	LEP	1,913	0.90	0.63	0.57	0.61	0.58	0.71
Economic Disadvantage	Free Lunch	26,319	0.90	0.67	0.57	0.58	0.55	0.73
	Reduced-Price Lunch	1,967	0.90	0.67	0.56	0.57	0.55	0.75
	Regular Lunch	19,887	0.90	0.69	0.53	0.56	0.54	0.75
IEP	Non-IEP	42,882	0.90	0.69	0.55	0.58	0.56	0.75
	IEP	5,291	0.89	0.62	0.55	0.56	0.56	0.71

Appendix N. Scoring Metrics for K-PREP Constructed-Response Items

Subject	Grade	Item Type	Validity ¹²		Reliability		Score Distribution										
			Perfect	Non-Adj	Perfect	Non-Adj	0	1	2	3	4	B	A	F	I	O	
Reading	3	SA	97.3 97	0.3 0	83.1 86	1.0 0	19.5 21	38.1 38	41.3 40	-	-	0.9 1	0.0	0.0	0.0	0.1 0	
		SA	95 97	0.1 0	81.8 84	0.2 0	16.0 17	51.4 50	26.9 28	-	-	5.7 5	0.0	0.0	0.0	0.1 0	
	4	SA	93.0 89	0.1 0	80.9 78	0.2 0	19.3 19	38.9 40	40.2 40	-	-	0.9 1	0.0	0.0	0.1 0	0.6 0	
		ER	92.7 95	0.5 0	76.1 80	4.5 4	28.5 29	10.5 9	30.3 32	12.7 14	13.7 14	2.7 2	0.7 0	0.0	0.2 0	0.8 0	
		SA	95.7 95	0.4 0	82.7 84	2.9 2	43.3 42	32.0 33	22.1 22	-	-	1.7 0	0.1 0	0.0	0.1 0	0.8 2	
	5	SA	94.0 95	0.3 0	80.1 81	0.8 0	32.3 32	44.7 45	22.2 23	-	-	0.7 0	0.0	0.0	0.0	0.1 0	
		ER	79.0 80	2.4 2	65.1 68	8.9 8	18.4 18	16.0 16	41.8 41	13.1 13	8.8 7	1.7 2	0.0	0.0	0.0	0.1 3	
		SA	92.0 95	0.2 0	80.2 80	0.2 0	8.0 8	57.3 49	34.0 42	-	-	0.6 1	0.0	0.0	0.0	0.1 0	
	6	SA	88.3 91	0.0 0	80.0 81	0.9 0	33.2 35	42.2 32	23.8 33	-	-	0.7 0	0.0	0.0	0.0	0.1 0	
		ER	80.2 89	2.0 2	65.1 75	7.3 0	27.6 30	24.0 23	25.6 24	10.8 11	10.6 11	1.4 1	0.0	0.0	0.0	0.1 0	
		SA	92.6 92	0.5 0	80.1 83	2.2 0	28.4 31	41.4 45	28.1 22	-	-	1.8 2	0.0	0.0	0.1 0	0.1 0	
	7	SA	93.3 95	0.0 0	80.0 83	0.1 0	10.9 12	49.9 55	37.0 31	-	-	2.0 2	0.0	0.0	0.1 0	0.1 0	
		ER	77.5 71	3.3 4	66.1 65	7.7 0	9.9 7	9.8 11	19.1 21	29.8 35	30.3 25	0.8 1	0.0	0.0	0.1 0	0.1 0	
		SA	90.4 94	0.2 0	80.1 86	0.5 0	19.8 15	61.6 70	17.3 12	-	-	1.0 1	0.1 0	0.0	0.0	0.2 2	
	8	SA	96.8 97	0.0 0	82.2 84	0.9 0	23.2 21	29.8 31	45.8 47	-	-	1.1 1	0.0	0.0	0.0	0.1 0	
		ER	81.4 86	0.4 1	65.6 65	7.3 0	14.8 18	17.4 16	31.4 30	23.6 24	10.9 11	1.5 1	0.0	0.0	0.2 0	0.3 0	
		SA	96.1 98	0.0 0	80.8 85	1.2 2	11.7 10	51.6 54	35.8 36	-	-	0.8 0	0.0	0.0	0.0	0.1 0	
	Mathematics	3	SA	96.0 97	0.0 0	84.9 89	0.2 0	24.3 22	62.5 68	10.9 8	-	-	2.2 2	0.0	0.0	0.0	0.2 0
			SA	96.2 98	0.0 0	93.7 95	0.4 0	40.4 38	10.4 11	46.8 48	-	-	2.1 2	0.0	0.0	0.0	0.3 1
			SA	95.5 97	0.1 0	92.7 94	0.2 0	21.4 20	30.7 31	46.3 48	-	-	0.9 1	0.0	0.0	0.0	0.2 0
		4	SA	95.1 98	0.1 0	94.5 94	0.3 0	41.7 42	28.9 28	27.8 28	-	-	1.4 2	0.0	0.0	0.0	0.1 0
			SA	98	0.0	95.9	0.1	64.5	16.4	17.3	-	-	1.7	0.0	0.0	0.0	0.1

¹² Validity statistics (highlighted in blue) are captured for items' most recent *operational* use.

			98	0	95	0	64	16	18			2			0	
		ER	90.6	0.9	79.5	2.7	17.3	39.3	18.8	5.8	16.6	2.2	0.0	0.0	0.0	0.1
			90	1	81	2	16	39	20	6	178	2			0	
		SA	92.3	0.0	86.5	0.3	23.9	45.1	29.6	-	-	1.3	0.0	0.0	0.0	0.1
			94	0	87	0	25	44	30			1			0	
	5	SA	94.8	0.0	84.4	0.2	35.1	45.6	18.3	-	-	0.9	0.0	0.0	0.0	0.1
			96	0	85	0	36	36	27			1			0	
		SA	96.1	0.3	86.4	0.8	56.9	21.1	21.0	-	-	0.9	0.0	0.0	0.0	0.2
			97	0	84	0	55	22	22			1			0	
		ER	92.3	0.2	85.2	0.8	10.6	58.5	14.3	8.9	4.2	3.3	0.0	0.0	0.0	0.1
			91	0	85	2	12	61	13	8	3	3			0	
		SA	97.5	0.0	81.2	0.2	32.8	43.5	22.4	-	-	1.2	0.0	0.0	0.0	0.1
			98	0	86	0	38	39	22			1			0	
	6	SA	98.1	0.0	90.4	0.2	12.6	39.0	47.3	-	-	1.0	0.0	0.0	0.0	0.1
			98	0	93	0	12	39	48			1			0	
		SA	96.8	0.1	93.8	0.3	22.9	63.1	11.7	-	-	1.6	0.0	0.0	0.0	0.6
			98	0	95	0	23	63	12			1			1	
		ER	91.2	0.2	73.3	2.2	33.0	26.9	17.7	11.8	7.5	2.8	0.0	0.0	0.0	0.3
			88	0	74	2	34	27	17	11	9	2			0	
		SA	96.1	0.1	88.4	0.3	38.7	40.4	19.8	-	-	0.9	0.0	0.0	0.0	0.2
			96	0	89	0	36	41	22			1			0	
	7	SA	96.9	0.0	91.4	0.2	37.3	50.4	10.3	-	-	1.6	0.0	0.0	0.0	0.3
			98	0	91	0	37	50	11			2			0	
		SA	95.5	0.1	93.4	0.3	70.3	13.6	15.1	-	-	0.9	0.0	0.0	0.0	0.2
			94	0	93	0	68	15	16			1			0	
		ER	93.5	0.3	83.6	0.7	38.5	14.1	20.3	19.0	6.6	1.4	0.0	0.0	0.0	0.1
			90	0	86	0	38	14	22	19	6	1			0	
		SA	95.6	0.0	80.1	1.5	38.8	23.2	36.2	-	-	1.6	0.0	0.0	0.0	0.2
			90	1	82	2	39	22	37			2			0	
	8	SA	95.4	0.2	89.5	0.7	36.8	23.4	37.8	-	-	1.7	0.0	0.0	0.0	0.2
			96	0	90	0	36	25	38			1			0	
		SA	93.5	0.1	88.7	0.4	72.0	13.2	12.9	-	-	1.7	0.0	0.0	0.0	0.2
			95	0	89	0	73	13	13			1			0	
		ER	89.8	0.3	73.3	1.6	10.5	34.8	19.5	19.2	13.5	2.3	0.0	0.0	0.0	0.2
			92	0	78	2	10	35	20	20	13	2			0	
		SA	95.6	0.4	87.6	1.3	40.4	22.5	34.6	-	-	1.7	0.0	0.0	0.0	0.8
			95	0	87	0	35	24	37			1			3	
Science	4	ER	87.9	0.6	66.3	4.0	8.3	26.2	38.2	19.7	5.8	1.2	0.0	0.0	0.2	0.3
			82	1	66	4	8	25	39	21	6	1			0	0
		ER	88.1	1.6	69.8	2.4	40.8	41.5	8.9	4.3	2.8	1.5	0.0	0.0	0.3	0.1
			85	3	72	2	45	40	8	3	3	1			0	0
		ER	89.9	0.3	68.4	4.1	30.6	26.9	20.4	16.1	3.6	1.7	0.0	0.0	0.2	0.4
			82	0	69	4	31	26	22	15	3	2			0	1
		ER	86.6	0.2	66.5	3.5	15.5	49.4	24.2	7.2	2.2	1.2	0.0	0.0	0.1	0.1
		85	0	73	2	16	47	24	9	3	1			0	0	
	ER	90.7	0.3	67.2	4.0	30.0	18.5	23.0	18.8	8.1	1.2	0.0	0.0	0.2	0.1	
		87	1	70	2	28	21	24	19	7	1			0	0	
	ER	92.7	0.5	70.6	1.5	24.9	44.6	22.6	4.0	1.1	2.2	0.0	0.0	0.2	0.4	
		86	1	70	0	27	44	22	4	1	1			0	0	
	ER	89.8	0.3	69.7	4.4	36.7	25.9	21.8	10.9	2.8	1.3	0.0	0.0	0.2	0.4	
	88	0	66	4	32	27	25	12	3	1			0	0		
7	ER	89.4	0.7	72.2	1.4	36.4	28.9	19.8	10.4	3.0	1.3	0.0	0.0	0.1	0.1	
		85	1	68	2	38	31	18	10	2	1			0	0	
	ER	84.6	1.0	69.2	1.3	46.4	32.5	12.5	4.7	1.3	2.1	0.0	0.0	0.0	0.6	
			83	1	69	2	45	32	14	5	1	2			1	

		ER	90.0 80	0.3 0	67.4 68	2.1 2	20.7 21	23.2 23	34.3 35	13.4 14	6.1 6	1.7 1	0.0	0.0	0.1 0	0.4 0		
		ER	88.2 88	0.4 0	68.5 67	1.8 2	30.4 33	25.5 26	24.9 24	12.2 12	4.9 4	1.7 1	0.0	0.0	0.1 0	0.3 0		
		ER	85 81	0.6 1	72.4 74	1.6 0	54.9 56	23.8 26	11.1 10	4.8 4	1.2 1	2.1 2	0.0	0.0	0.1 0	2.1 1		
		ER	88.4 81	0.2 0	65.6 66	1.5 0	34.0 29	37.3 41	18.9 21	6.7 6	1.1 1	1.4 2	0.0	0.0	0.1 0	0.4 0		
		ER	88.7 84	0.6 1	67.1 69	1.4 0	25.7 26	32.8 33	27.2 27	9.6 10	2.3 3	1.8 1	0.0	0.0	0.2 0	0.3 0		
	11	ER	83.8 -	0.2 -	66.2 76	4.3 -	40.6 34	21.7 26	18.9 25	6.6 9	1.8 1	4.0 3	0.6 0	0.0	1.1 0	4.6 2		
		ER	82.1 -	0.7 -	68.9 79	3.3 -	24.2 22	42.1 28	18.2 35	5.8 7	1.5 0	4.3 5	0.2 0	0.0	0.9 0	2.8 3		
		ER	79.8 -	1.3 -	65.1 85	5.6 2	24.3 31	33.7 37	23.4 21	8.2 5	2.8 1	3.5 3	0.4 0	0.0	0.8 0	2.9 2		
		ER	88.1 -	0.0 -	72.8 77	1.5 -	18.7 16	39.9 51	23.3 23	7.6 5	1.9 1	3.9 2	0.4 0	0.0	1.0 1	3.3 1		
		ER	88.3 -	0.6 -	72.2 81	1.0 -	14.1 13	45.2 56	24.3 18	7.7 5	3.3 1	2.7 4	0.3 0	0.0	0.7 1	1.6 2		
		ER	87.6 -	0.6 -	67.1 -	3.7 -	37.2 -	27.8 -	19.2 -	7.6 -	2.3 -	3.3 -	0.2 -	0.0	0.7 -	1.6 -		
		ER	79.8 -	0.6 -	73.2 73	2.2 2	31.6 39	32.5 35	24.7 18	7.2 5	1.7 0	1.2 2	0.1 0	0.0	0.4 0	0.6 1		
		ER	83.2 -	0.8 -	67.3 67	7.7 4	23.8 22	22.4 28	27.3 30	16.9 13	6.8 4	1.8 2	0.1 0	0.0	0.3 0	0.7 1		
		ER	86.4 -	0.3 -	66.0 66	3.5 4	19.7 17	33.6 32	29.0 32	10.2 12	2.6 3	2.6 3	0.2 0	0.0	0.5 0	1.5 1		
		ER	78.6 -	2.3 -	65.7 72	5.6 2	40.9 34	31.6 32	18.4 18	4.9 6	1.0 1	1.9 7	0.1 0	0.0	0.3 0	1.0 2		
		Social Studies	5	ER	85.0 81	0.4 1	65.9 65	0.5 2	12.7 13	19.6 17	37.4 37	23.2 26	5.7 6	1.0 1	0.0	0.0	0.1 0	0.2 0
				ER	80.6 84	1.4 1	67.1 67	0.4 2	18.7 21	38.3 38	27.7 29	11.5 10	3.0 2	0.6 0	0.0	0.0	0.1 0	0.1 0
				ER	78.8 80	0.7 0	66.2 67	0.0 2	19.5 23	38.8 37	27.3 28	11.0 9	2.5 2	0.7 1	0.1 0	0.0	0.1 0	0.1 0
			8	ER	81.7 80	2.2 2	67.1 71	0.0 0	7.7 6	5.4 7	34.5 37	38.3 34	12.3 15	1.5 1	0.0	0.0	0.0 0	0.2 0
				ER	84.8 84	1.1 1	67.3 70	0.0 0	3.8 4	5.2 6	51.8 47	29.1 31	9.0 11	0.9 1	0.0	0.0	0.0 0	0.2 0
ER	85.9 82			0.3 0	66.7 70	0.0 0	5.1 5	10.1 8	40.3 40	30.5 29	12.6 17	1.1 1	0.0	0.0	0.0 0	0.2 0		
On Demand Writing	5	Prompt	82.7 87	0.0 0	68.6 69	0.4 0	- 16	17.8 49	46.2 49	30.7 30	3.7 4	1.2 1	0.0	0.0	0.0 0	0.3 0		
		Prompt	81.8 86	0.0 0	65.7 67	0.9 0	- 19	21.4 46	46.2 46	26.6 30	3.8 4	0.6 0	0.1 0	0.0	0.1 0	1.1 1		
		Prompt	82.4 87	0.1 0	66.3 65	0.4 2	- 9	10.7 51	45.0 51	39.2 35	4.8 5	0.0 0	0.1 0	0.0	0.0 0	0.2 0		
	8	Prompt	86.2 87	0.0 0	69.3 67	0.5 0	- 11	14.0 35	37.4 35	38.3 40	8.6 13	1.2 1	0.1 0	0.0	0.0 0	0.4 0		
		Prompt	84.9 84	0.1 0	69.1 68	0.2 0	- 10	11.3 34	36.2 34	43.5 43	8.8 13	0.0 0	0.0	0.0	0.0 0	0.2 0		
		Prompt	85.7 84	0.1 0	71.0 66	0.1 0	- 14	16.6 39	43.8 39	32.0 37	6.0 9	0.9 1	0.1 0	0.0	0.0 0	0.7 0		
	11	Prompt	87.0	0.3	69.0	0.4	-	18.3	34.2	31.6	12.1	1.2	0.3	0.0	0.2	2.2		

			84	0	68	0		17	40	33	7	2	0		0	1
	Prompt*		86.5	0.0	68.7	0.3	-	9.4	25.0	36.2	27.6	0.7	0.1	0.0	0.1	1.0
			89	0	72	0		--	--	--	--	--	--	--	--	--

**On Demand Writing was administrated via computer. The online setup of choice prompts results in combined scoring metrics.*

Appendix O. On-Demand Writing Score Distribution and Rater Agreement

Prompt Type	Grade	Final Prompt Score					Condition Code					Rater Agreement ¹³		
		0	1	2	3	4	A	B	F	I	O	Perfect	Adjacent	Non-Adjacent
Passage-Based	5	2%	21%	46%	27%	4%	14	28	1	6	117	66%	33%	1%
	8	1%	16%	44%	32%	6%	13	55	1	3	78	71%	29%	0%
	11	4%	18%	34%	32%	12%	26	76	3	18	232	69%	31%	0%
Choice	5	1%	14%	45%	36%	4%	3	24	1	2	22	67%	32%	0%
	8	1%	13%	37%	41%	9%	6	36	1	2	35	69%	31%	0%
	11	2%	9%	25%	36%	28%	12	36	0	9	92	69%	31%	0%

A = Insufficient Amount to Score; B = Non-Response; F = Non-English; I = Illegible; O = Off-Topic

¹³ Approximately 20% of student responses are scored twice for interrater reliability.

Appendix P. Accuracy and Consistency¹⁴

Reading

Table 1. Accuracy Classification for Reading Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.18481	0.04060	0.00191	0.00000	71.52
Apprentice	0.04790	0.14286	0.05932	0.00043	
Proficient	0.00193	0.05238	0.21981	0.04919	
Distinguished	0.00000	0.00018	0.03100	0.16767	

Table 2. Accuracy Classification at Proficient Cut Point for Reading Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.18481	0.04060	0.00191	0.00000	88.38
Apprentice	0.04790	0.14286	0.05932	0.00043	
Proficient	0.00193	0.05238	0.21981	0.04919	
Distinguished	0.00000	0.00018	0.03100	0.16767	

Table 3. Consistency Classification for Reading Grade 3

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.17277	0.05834	0.01037	0.00009	61.97	0.49
Apprentice	0.05295	0.10871	0.07022	0.00330		
Proficient	0.00884	0.06599	0.17882	0.05449		
Distinguished	0.00008	0.00299	0.05262	0.15941		

Table 4. Accuracy Classification for Reading Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13763	0.03132	0.00066	0.00001	71.04
Apprentice	0.05307	0.18472	0.06655	0.00020	
Proficient	0.00116	0.06027	0.28268	0.04943	
Distinguished	0.00000	0.00008	0.02683	0.10537	

¹⁴ Alternate K-PREP students are not included.

Table 5. Accuracy Classification at Proficient Cut Point for Reading Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13763	0.03132	0.00066	0.00001	87.11
Apprentice	0.05307	0.18472	0.06655	0.00020	
Proficient	0.00116	0.06027	0.28268	0.04943	
Distinguished	0.00000	0.00008	0.02683	0.10537	

Table 6. Consistency Classification for Reading Grade 4

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.13028	0.05310	0.00684	0.00002	60.81	0.46
Apprentice	0.05517	0.14438	0.08550	0.00231		
Proficient	0.00639	0.07687	0.23298	0.05223		
Distinguished	0.00002	0.00204	0.05141	0.10045		

Table 7. Accuracy Classification for Reading Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13026	0.02944	0.00124	0.00001	70.34
Apprentice	0.05150	0.14699	0.06567	0.00031	
Proficient	0.00198	0.05825	0.28601	0.05311	
Distinguished	0.00000	0.00014	0.03496	0.14012	

Table 8. Accuracy Classification at Proficient Cut Point for Reading Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13026	0.02944	0.00124	0.00001	87.24
Apprentice	0.05150	0.14699	0.06567	0.00031	
Proficient	0.00198	0.05825	0.28601	0.05311	
Distinguished	0.00000	0.00014	0.03496	0.14012	

Table 9. Consistency Classification for Reading Grade 5

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12283	0.04825	0.00943	0.00006	60.12	0.45
Apprentice	0.05218	0.11278	0.08354	0.00298		
Proficient	0.00867	0.07106	0.23271	0.05759		
Distinguished	0.00006	0.00274	0.06222	0.13291		

Table 10. Accuracy Classification for Reading Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15762	0.02687	0.00083	0.00000	74.92
Apprentice	0.04710	0.12808	0.05241	0.00003	
Proficient	0.00125	0.04626	0.31134	0.04718	
Distinguished	0.00000	0.00001	0.02883	0.15218	

Table 11. Accuracy Classification at Proficient Cut Point for Reading Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15762	0.02687	0.00083	0.00000	89.92
Apprentice	0.04710	0.12808	0.05241	0.00003	
Proficient	0.00125	0.04626	0.31134	0.04718	
Distinguished	0.00000	0.00001	0.02883	0.15218	

Table 12. Consistency Classification for Reading Grade 6

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.14805	0.04169	0.00633	0.00001	65.94	0.53
Apprentice	0.05129	0.10002	0.06917	0.00075		
Proficient	0.00663	0.05890	0.26692	0.05423		
Distinguished	0.00000	0.00060	0.05099	0.14440		

Table 13. Accuracy Classification for Reading Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15141	0.02853	0.00107	0.00002	72.19
Apprentice	0.04750	0.13579	0.05656	0.00013	
Proficient	0.00186	0.05622	0.29606	0.05249	
Distinguished	0.00000	0.00007	0.03362	0.13868	

Table 14. Accuracy Classification at Proficient Cut Point for Reading Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15141	0.02853	0.00107	0.00002	88.41
Apprentice	0.04750	0.13579	0.05656	0.00013	
Proficient	0.00186	0.05622	0.29606	0.05249	
Distinguished	0.00000	0.00007	0.03362	0.13868	

Table 15. Consistency Classification for Reading Grade 7

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.14329	0.04554	0.00807	0.00003	62.44	0.48
Apprentice	0.04948	0.10515	0.07489	0.00194		
Proficient	0.00797	0.06813	0.24507	0.05850		
Distinguished	0.00003	0.00179	0.05927	0.13085		

Table 16. Accuracy Classification for Reading Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12773	0.02414	0.00086	0.00002	72.95
Apprentice	0.04098	0.12073	0.04995	0.00021	
Proficient	0.00162	0.05225	0.26758	0.06014	
Distinguished	0.00000	0.00013	0.04019	0.21348	

Table 17. Accuracy Classification at Proficient Cut Point for Reading Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12773	0.02414	0.00086	0.00002	89.5
Apprentice	0.04098	0.12073	0.04995	0.00021	
Proficient	0.00162	0.05225	0.26758	0.06014	
Distinguished	0.00000	0.00013	0.04019	0.21348	

Table 18. Consistency Classification for Reading Grade 8

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12108	0.03915	0.00685	0.00004	63.52	0.50
Apprentice	0.04243	0.09411	0.06774	0.00272		
Proficient	0.00677	0.06171	0.21915	0.07026		
Distinguished	0.00004	0.00228	0.06483	0.20083		

Mathematics

Table 19. Accuracy Classification for Mathematics Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.14477	0.04055	0.00009	0.00000	78.08
Apprentice	0.04171	0.25376	0.05121	0.00000	
Proficient	0.00007	0.04351	0.27662	0.02414	
Distinguished	0.00000	0.00000	0.01792	0.10564	

Table 20. Accuracy Classification at Proficient Cut Point for Mathematics Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.14477	0.04055	0.00009	0.00000	90.51
Apprentice	0.04171	0.25376	0.05121	0.00000	
Proficient	0.00007	0.04351	0.27662	0.02414	
Distinguished	0.00000	0.00000	0.01792	0.10564	

Table 21. Consistency Classification for Mathematics Grade 3

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.13340	0.06164	0.00162	0.00000	69.32	0.57
Apprentice	0.05183	0.21200	0.06598	0.00011		
Proficient	0.00132	0.06406	0.24660	0.02846		
Distinguished	0.00000	0.00012	0.03165	0.10122		

Table 22. Accuracy Classification for Mathematics Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16745	0.03989	0.00011	0.00000	77.24
Apprentice	0.04847	0.23405	0.05101	0.00001	
Proficient	0.00009	0.04003	0.23584	0.02767	
Distinguished	0.00000	0.00000	0.02032	0.13506	

Table 23. Accuracy Classification at Proficient Cut Point for Mathematics Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16745	0.03989	0.00011	0.00000	90.88
Apprentice	0.04847	0.23405	0.05101	0.00001	
Proficient	0.00009	0.04003	0.23584	0.02767	
Distinguished	0.00000	0.00000	0.02032	0.13506	

Table 24. Consistency Classification for Mathematics Grade 4

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.15360	0.05967	0.00180	0.00000	68.38	0.57
Apprentice	0.06074	0.19486	0.06484	0.00036		
Proficient	0.00167	0.05909	0.20581	0.03286		
Distinguished	0.00000	0.00035	0.03483	0.12952		

Table 25. Accuracy Classification for Mathematics Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12227	0.02946	0.00004	0.00000	77.7
Apprentice	0.04300	0.24348	0.05029	0.00002	
Proficient	0.00004	0.04209	0.24435	0.03434	
Distinguished	0.00000	0.00001	0.02372	0.16688	

Table 26. Accuracy Classification at Proficient Cut Point for Mathematics Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12227	0.02946	0.00004	0.00000	90.75
Apprentice	0.04300	0.24348	0.05029	0.00002	
Proficient	0.00004	0.04209	0.24435	0.03434	
Distinguished	0.00000	0.00001	0.02372	0.16688	

Table 27. Consistency Classification for Mathematics Grade 5

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.11337	0.04841	0.00106	0.00000	68.99	0.58
Apprentice	0.05092	0.20570	0.06628	0.00057		
Proficient	0.00101	0.06043	0.21106	0.04095		
Distinguished	0.00000	0.00051	0.04002	0.15972		

Table 28. Accuracy Classification for Mathematics Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.07929	0.03360	0.00001	0.00000	79.27
Apprentice	0.03819	0.33580	0.05157	0.00000	
Proficient	0.00001	0.04305	0.26902	0.02375	
Distinguished	0.00000	0.00000	0.01713	0.10859	

Table 29. Accuracy Classification at Proficient Cut Point for Mathematics Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.07929	0.03360	0.00001	0.00000	90.54
Apprentice	0.03819	0.33580	0.05157	0.00000	
Proficient	0.00001	0.04305	0.26902	0.02375	
Distinguished	0.00000	0.00000	0.01713	0.10859	

Table 30. Consistency Classification for Mathematics Grade 6

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.07241	0.05673	0.00047	0.00000	70.73	0.57
Apprentice	0.04471	0.29051	0.06693	0.00011		
Proficient	0.00036	0.06509	0.24021	0.02811		
Distinguished	0.00000	0.00011	0.03012	0.10413		

Table 31. Accuracy Classification for Mathematics Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.09298	0.03366	0.00002	0.00000	77.78
Apprentice	0.04643	0.30681	0.05354	0.00000	
Proficient	0.00003	0.04495	0.26899	0.02607	
Distinguished	0.00000	0.00000	0.01744	0.10906	

Table 32. Accuracy Classification at Proficient Cut Point for Mathematics Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.09298	0.03366	0.00002	0.00000	90.14
Apprentice	0.04643	0.30681	0.05354	0.00000	
Proficient	0.00003	0.04495	0.26899	0.02607	
Distinguished	0.00000	0.00000	0.01744	0.10906	

Table 33. Consistency Classification for Mathematics Grade 7

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.08509	0.05715	0.00088	0.00000	68.92	0.56
Apprentice	0.05354	0.26074	0.06913	0.00016		
Proficient	0.00080	0.06738	0.23887	0.03051		
Distinguished	0.00000	0.00016	0.03113	0.10446		

Table 34. Accuracy Classification for Mathematics Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12397	0.03676	0.00003	0.00000	77.84
Apprentice	0.05037	0.29142	0.05361	0.00001	
Proficient	0.00003	0.04144	0.26879	0.02378	
Distinguished	0.00000	0.00000	0.01552	0.09426	

Table 35. Accuracy Classification at Proficient Cut Point for Mathematics Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12397	0.03676	0.00003	0.00000	90.49
Apprentice	0.05037	0.29142	0.05361	0.00001	
Proficient	0.00003	0.04144	0.26879	0.02378	
Distinguished	0.00000	0.00000	0.01552	0.09426	

Table 36. Consistency Classification for Mathematics Grade 8

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.11311	0.05919	0.00097	0.00000	69.12	0.56
Apprentice	0.06036	0.24750	0.06854	0.00011		
Proficient	0.00090	0.06284	0.24028	0.02764		
Distinguished	0.00000	0.00010	0.02816	0.09031		

Science

Table 37. Accuracy Classification for Science Grade 4, Operational Set #1

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10048	0.03559	0.00010	0.00002	71.47
Apprentice	0.05524	0.41803	0.09127	0.00073	
Proficient	0.00013	0.06964	0.19354	0.03120	
Distinguished	0.00000	0.00001	0.00134	0.00267	

Table 38. Accuracy Classification at Proficient Cut Point for Science Grade 4, Operational Set #1

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10048	0.03559	0.00010	0.00002	83.81
Apprentice	0.05524	0.41803	0.09127	0.00073	
Proficient	0.00013	0.06964	0.19354	0.03120	
Distinguished	0.00000	0.00001	0.00134	0.00267	

Table 39. Consistency Classification for Science Grade 4, Operational Set #1

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.09612	0.07107	0.00273	0.00001	60.69	0.37
Apprentice	0.05741	0.34063	0.10413	0.00344		
Proficient	0.00231	0.10898	0.16243	0.02347		
Distinguished	0.00001	0.00260	0.01696	0.00772		

Table 40. Accuracy Classification for Science Grade 4, Operational Set #2

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.08173	0.03082	0.00005	0.00002	73.02
Apprentice	0.05934	0.45425	0.09256	0.00033	
Proficient	0.00006	0.06029	0.18811	0.02423	
Distinguished	0.00000	0.00000	0.00210	0.00611	

Table 41. Accuracy Classification at Proficient Cut Point for Science Grade 4, Operational Set #2

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.08173	0.03082	0.00005	0.00002	84.6
Apprentice	0.05934	0.45425	0.09256	0.00033	
Proficient	0.00006	0.06029	0.18811	0.02423	
Distinguished	0.00000	0.00000	0.00210	0.00611	

Table 42. Consistency Classification for Science Grade 4, Operational Set #2

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.07927	0.06701	0.00198	0.00000	62.67	0.38
Apprentice	0.06007	0.37369	0.10270	0.00177		
Proficient	0.00179	0.10345	0.16464	0.01985		
Distinguished	0.00000	0.00121	0.01349	0.00907		

Table 43. Accuracy Classification for Science Grade 7, Operational Set #1

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16939	0.05506	0.00009	0.00001	74.93
Apprentice	0.06769	0.42473	0.07036	0.00004	
Proficient	0.00005	0.04312	0.14893	0.01269	
Distinguished	0.00000	0.00000	0.00160	0.00622	

Table 44. Accuracy Classification at Proficient Cut Point for Science Grade 7, Operational Set #1

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16939	0.05506	0.00009	0.00001	88.63
Apprentice	0.06769	0.42473	0.07036	0.00004	
Proficient	0.00005	0.04312	0.14893	0.01269	
Distinguished	0.00000	0.00000	0.00160	0.00622	

Table 45. Consistency Classification for Science Grade 7, Operational Set #1

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.15732	0.09193	0.00196	0.00000	65.09	0.44
Apprentice	0.07808	0.35095	0.07650	0.00033		
Proficient	0.00173	0.07982	0.13538	0.01134		
Distinguished	0.00000	0.00022	0.00716	0.00728		

Table 46. Accuracy Classification for Science Grade 7, Operational Set #2

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10492	0.05062	0.00011	0.00000	74.18
Apprentice	0.06462	0.44889	0.08026	0.00003	
Proficient	0.00005	0.04818	0.18112	0.01223	
Distinguished	0.00000	0.00000	0.00212	0.00685	

Table 47. Accuracy Classification at Proficient Cut Point for Science Grade 7, Operational Set #2

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10492	0.05062	0.00011	0.00000	87.14
Apprentice	0.06462	0.44889	0.08026	0.00003	
Proficient	0.00005	0.04818	0.18112	0.01223	
Distinguished	0.00000	0.00000	0.00212	0.00685	

Table 48. Consistency Classification for Science Grade 7, Operational Set #2

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.09760	0.09099	0.00237	0.00000	63.83	0.41
Apprentice	0.07015	0.36805	0.08751	0.00026		
Proficient	0.00184	0.08845	0.16487	0.01105		
Distinguished	0.00000	0.00021	0.00886	0.00780		

Table 49. Accuracy Classification for Science Grade 11, Operational Set #1

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13392	0.04617	0.00003	0.00000	76.94
Apprentice	0.05844	0.41045	0.06658	0.00001	
Proficient	0.00001	0.04285	0.21227	0.01314	
Distinguished	0.00000	0.00000	0.00336	0.01277	

Table 50. Accuracy Classification at Proficient Cut Point for Science Grade 11, Operational Set #1

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13392	0.04617	0.00003	0.00000	89.05
Apprentice	0.05844	0.41045	0.06658	0.00001	
Proficient	0.00001	0.04285	0.21227	0.01314	
Distinguished	0.00000	0.00000	0.00336	0.01277	

Table 51. Consistency Classification for Science Grade 11, Operational Set #1

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12311	0.07710	0.00098	0.00000	67.81	0.49
Apprentice	0.06843	0.34832	0.07737	0.00008		
Proficient	0.00083	0.07398	0.19346	0.01262		
Distinguished	0.00000	0.00006	0.01041	0.01322		

Table 52. Accuracy Classification for Science Grade 11, Operational Set #2

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13417	0.03908	0.00002	0.00000	76.5
Apprentice	0.06686	0.42746	0.07100	0.00001	
Proficient	0.00002	0.04617	0.19842	0.00911	
Distinguished	0.00000	0.00000	0.00220	0.00548	

Table 53. Accuracy Classification at Proficient Cut Point for Science Grade 11, Operational Set #2

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13417	0.03908	0.00002	0.00000	88.28
Apprentice	0.06686	0.42746	0.07100	0.00001	
Proficient	0.00002	0.04617	0.19842	0.00911	
Distinguished	0.00000	0.00000	0.00220	0.00548	

Table 54. Consistency Classification for Science Grade 11, Operational Set #2

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12599	0.07189	0.00102	0.00000	67.31	0.47
Apprentice	0.07404	0.36108	0.08202	0.00011		
Proficient	0.00102	0.07963	0.17983	0.00834		
Distinguished	0.00000	0.00011	0.00876	0.00615		

Table 55. Accuracy Classification for Science Grade 11, Operational Set #3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12082	0.04360	0.00003	0.00000	77.26
Apprentice	0.05481	0.40696	0.06715	0.00001	
Proficient	0.00001	0.04524	0.23067	0.01165	
Distinguished	0.00000	0.00000	0.00495	0.01411	

Table 56. Accuracy Classification at Proficient Cut Point for Science Grade 11, Operational Set #3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12082	0.04360	0.00003	0.00000	88.76
Apprentice	0.05481	0.40696	0.06715	0.00001	
Proficient	0.00001	0.04524	0.23067	0.01165	
Distinguished	0.00000	0.00000	0.00495	0.01411	

Table 57. Consistency Classification for Science Grade 11, Operational Set #3

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.11130	0.07400	0.00095	0.00000	67.99	0.50
Apprentice	0.06355	0.34572	0.07949	0.00008		
Proficient	0.00078	0.07599	0.20870	0.01148		
Distinguished	0.00000	0.00009	0.01365	0.01421		

Table 58. Accuracy Classification for Science Grade 11, Operational Set #4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13268	0.03559	0.00001	0.00001	76.89
Apprentice	0.06421	0.42386	0.07229	0.00001	
Proficient	0.00001	0.04440	0.20483	0.01219	
Distinguished	0.00000	0.00000	0.00242	0.00749	

Table 59. Accuracy Classification at Proficient Cut Point for Science Grade 11, Operational Set #4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13268	0.03559	0.00001	0.00001	88.33
Apprentice	0.06421	0.42386	0.07229	0.00001	
Proficient	0.00001	0.04440	0.20483	0.01219	
Distinguished	0.00000	0.00000	0.00242	0.00749	

Table 60. Consistency Classification for Science Grade 11, Operational Set #4

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12535	0.06688	0.00081	0.00000	67.97	0.49
Apprentice	0.07079	0.36110	0.08445	0.00016		
Proficient	0.00077	0.07574	0.18490	0.01120		
Distinguished	0.00000	0.00012	0.00939	0.00835		

Social Studies

Table 61. Accuracy Classification for Social Studies Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.09834	0.02603	0.00003	0.00000	79.07
Apprentice	0.04247	0.25554	0.05338	0.00000	
Proficient	0.00004	0.04514	0.34370	0.02672	
Distinguished	0.00000	0.00000	0.01555	0.09307	

Table 62. Accuracy Classification at Proficient Cut Point for Social Studies Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.09834	0.02603	0.00003	0.00000	90.14
Apprentice	0.04247	0.25554	0.05338	0.00000	
Proficient	0.00004	0.04514	0.34370	0.02672	
Distinguished	0.00000	0.00000	0.01555	0.09307	

Table 63. Consistency Classification for Social Studies Grade 5

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.09161	0.04557	0.00099	0.00000	70.83	0.58
Apprentice	0.04829	0.21621	0.07134	0.00004		
Proficient	0.00095	0.06489	0.31142	0.03074		
Distinguished	0.00000	0.00003	0.02890	0.08902		

Table 64. Accuracy Classification for Social Studies Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.06636	0.01903	0.00001	0.00000	80.29
Apprentice	0.03104	0.24551	0.04931	0.00000	
Proficient	0.00001	0.04485	0.35754	0.03200	
Distinguished	0.00000	0.00000	0.02084	0.13351	

Table 65. Accuracy Classification at Proficient Cut Point for Social Studies Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.06636	0.01903	0.00001	0.00000	90.58
Apprentice	0.03104	0.24551	0.04931	0.00000	
Proficient	0.00001	0.04485	0.35754	0.03200	
Distinguished	0.00000	0.00000	0.02084	0.13351	

Table 66. Consistency Classification for Social Studies Grade 8

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.06236	0.03539	0.00052	0.00000	72.32	0.60
Apprentice	0.03458	0.21136	0.06855	0.00006		
Proficient	0.00046	0.06258	0.32194	0.03787		
Distinguished	0.00000	0.00005	0.03669	0.12758		

Appendix Q. Principal Components Analysis—Scree Plots¹⁵

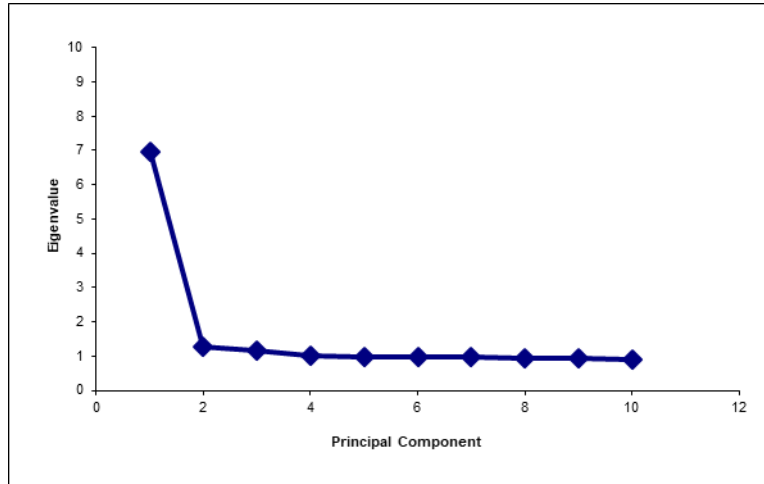


Figure 1. Reading Grade 3 Principal Components Scree Plot

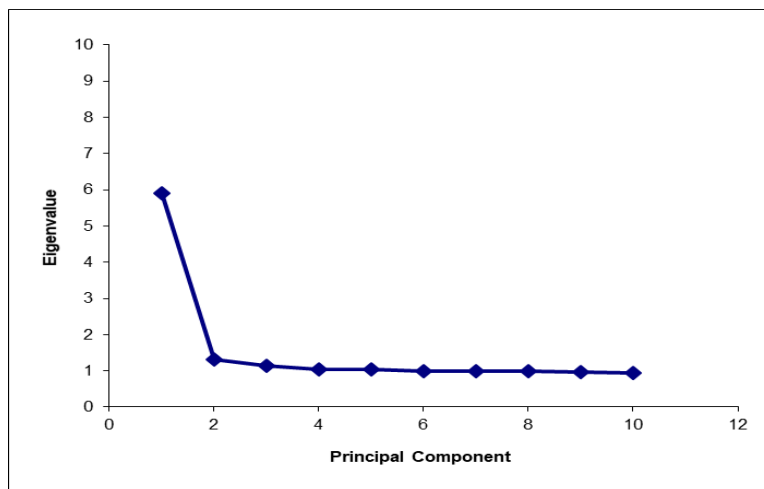


Figure 2. Reading Grade 4 Principal Components Scree Plot

¹⁵ The Alternate K-PREP assessment is not included.

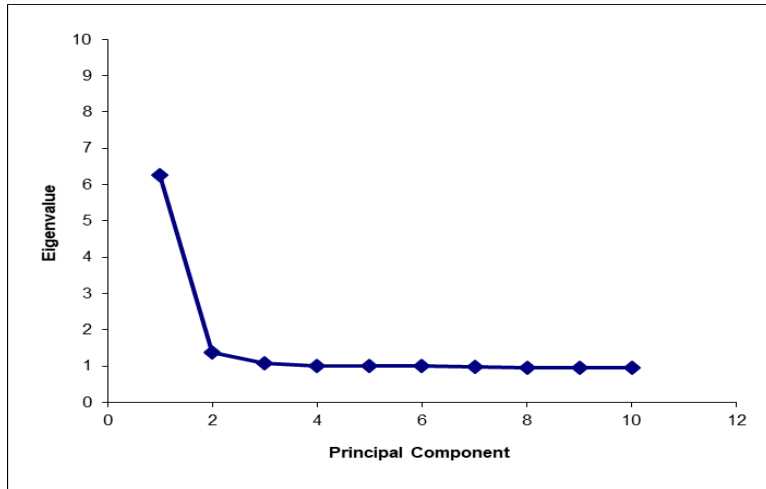


Figure 3. Reading Grade 5 Principal Components Scree Plot

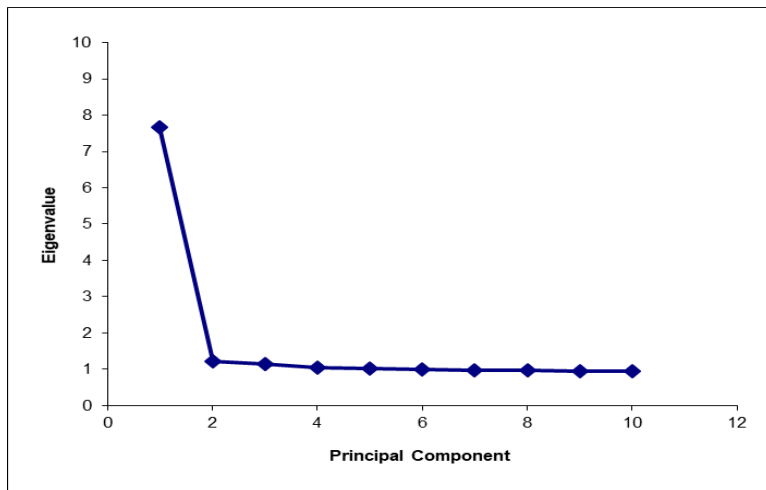


Figure 4. Reading Grade 6 Principal Components Scree Plot

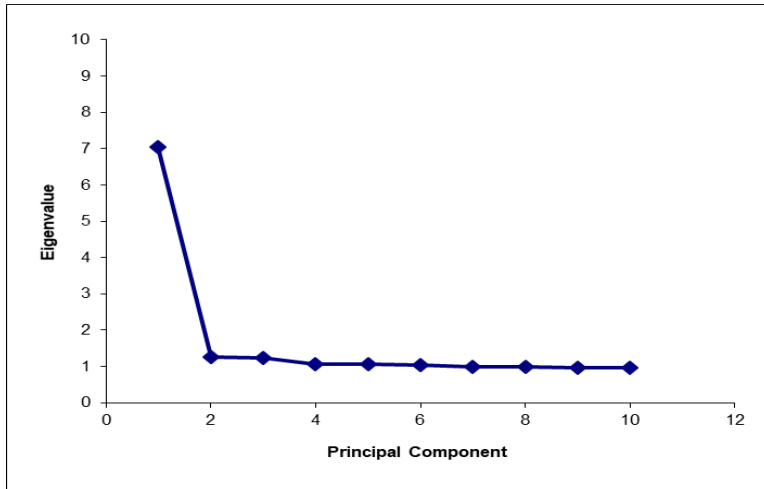


Figure 5. Reading Grade 7 Principal Components Scree Plot

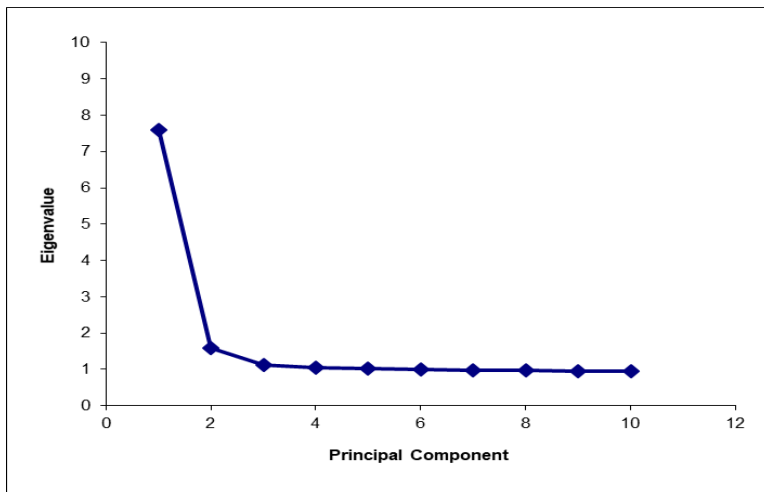


Figure 6. Reading Grade 8 Principal Components Scree Plot

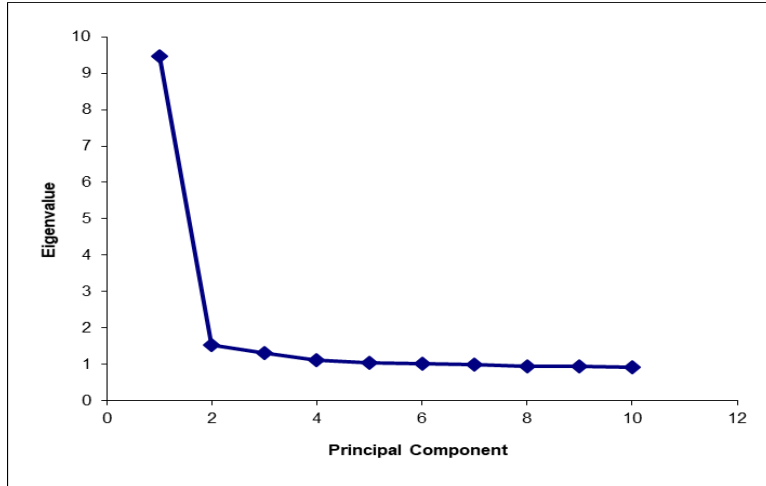


Figure 7. Mathematics Grade 3 Principal Components Scree Plot

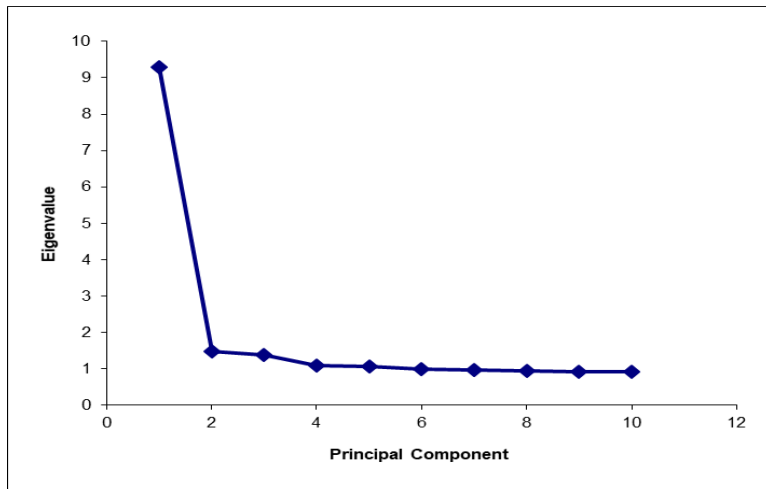


Figure 8. Mathematics Grade 4 Principal Components Scree Plot

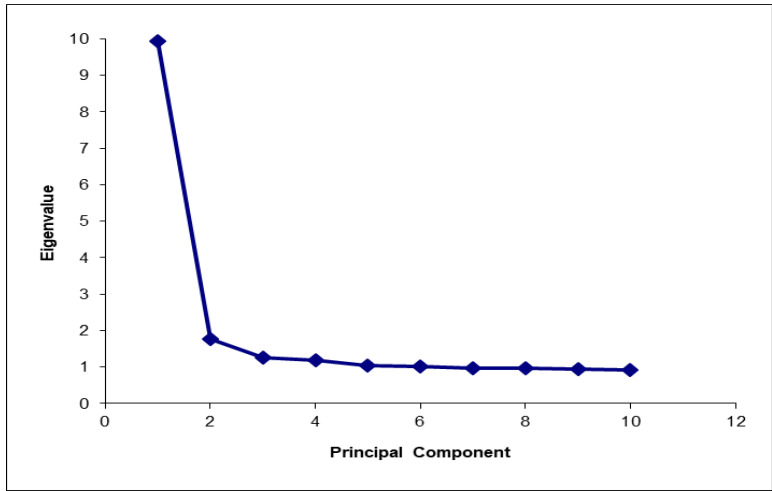


Figure 9. Mathematics Grade 5 Principal Components Scree Plot

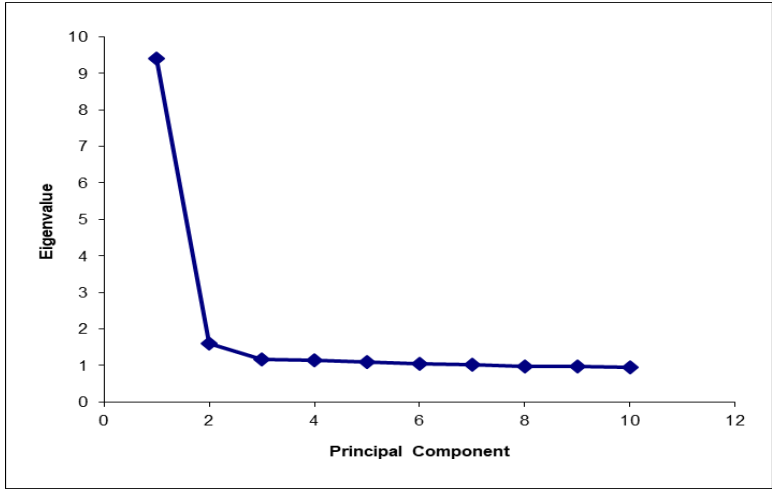


Figure 10. Mathematics Grade 6 Principal Components Scree Plot

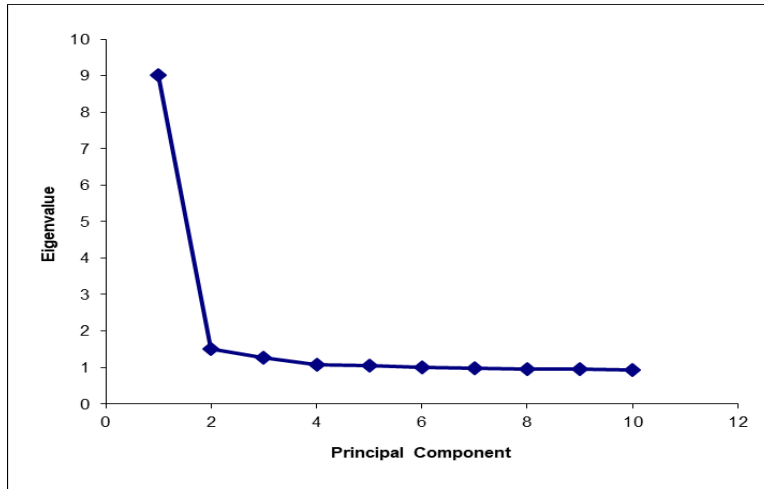


Figure 11. Mathematics Grade 7 Principal Components Scree Plot

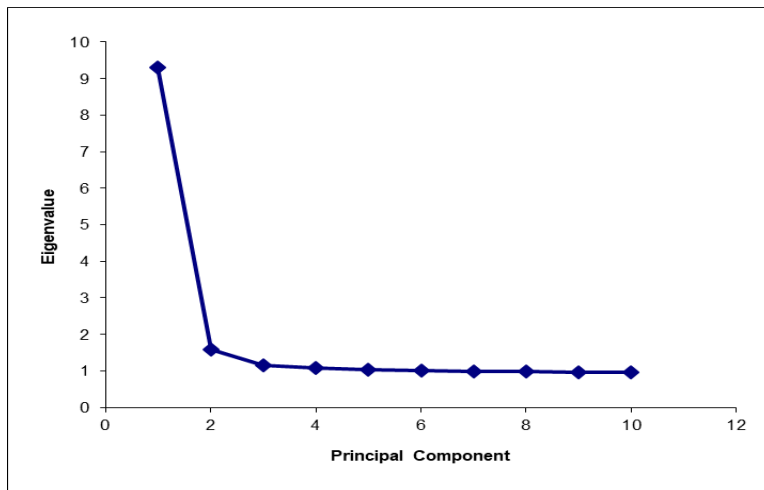


Figure 12. Mathematics Grade 8 Principal Components Scree Plot

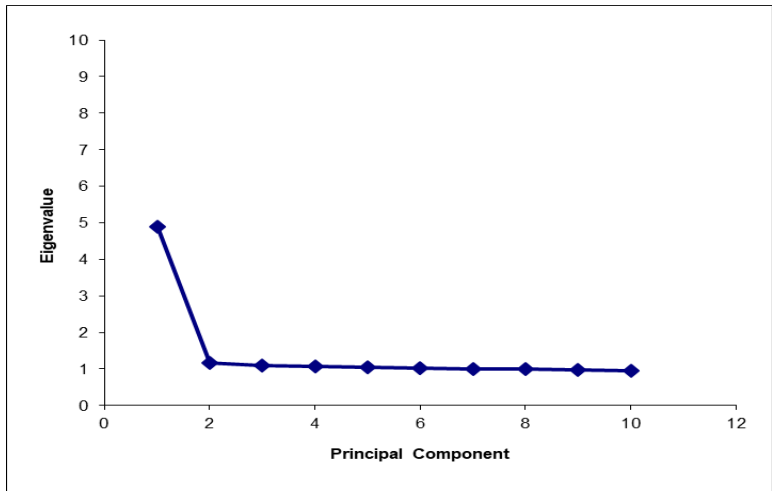


Figure 13. Science Grade 4, Operational Set #1 Principal Components Scree Plot

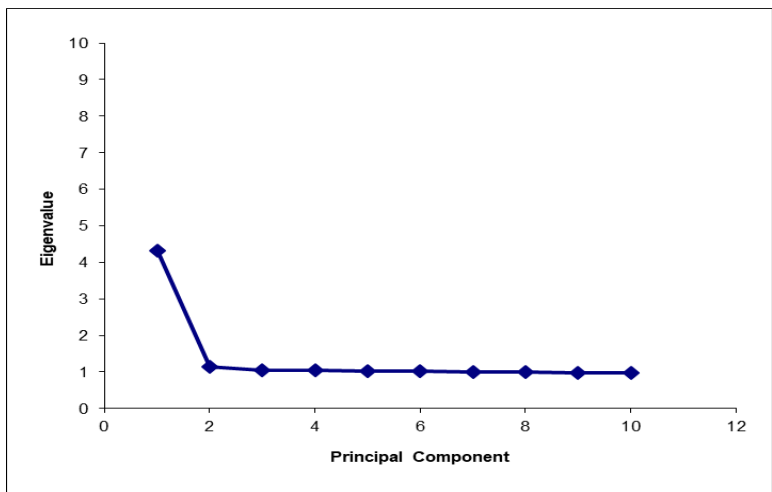


Figure 14. Science Grade 4, Operational Set #2 Principal Components Scree Plot

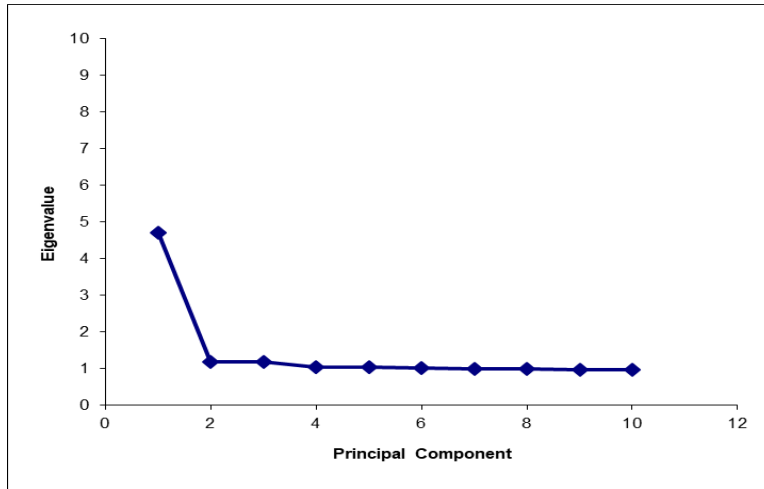


Figure 15. Science Grade 7, Operational Set #1 Principal Components Scree Plot

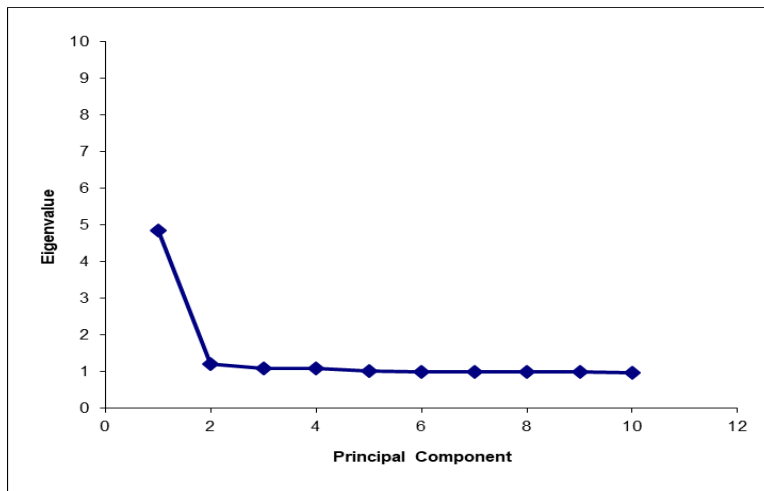


Figure 16. Science Grade 7, Operational Set #2 Principal Components Scree Plot

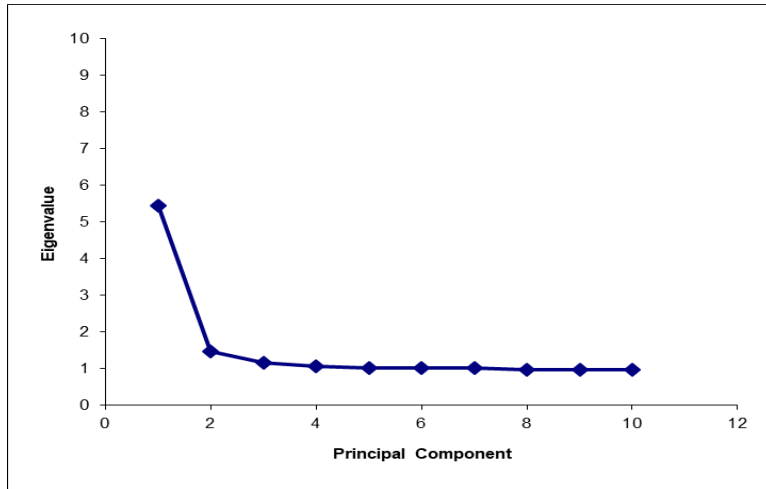


Figure 17. Science Grade 11, Operational Set #1 Principal Components Scree Plot

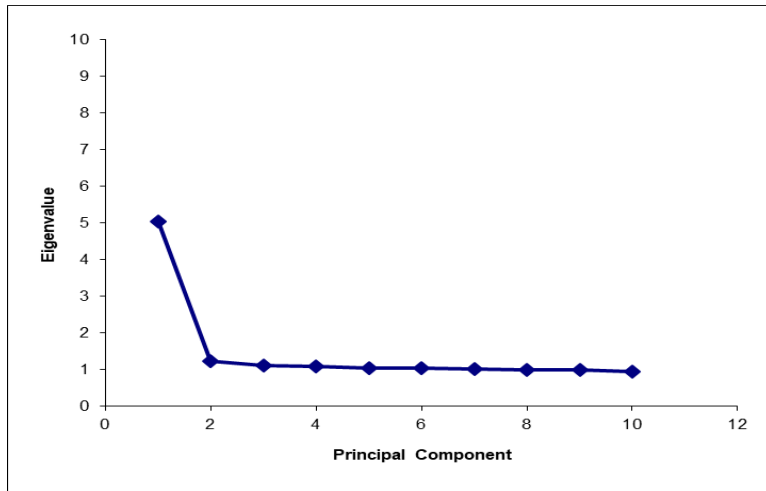


Figure 18. Science Grade 11, Operational Set #2 Principal Components Scree Plot

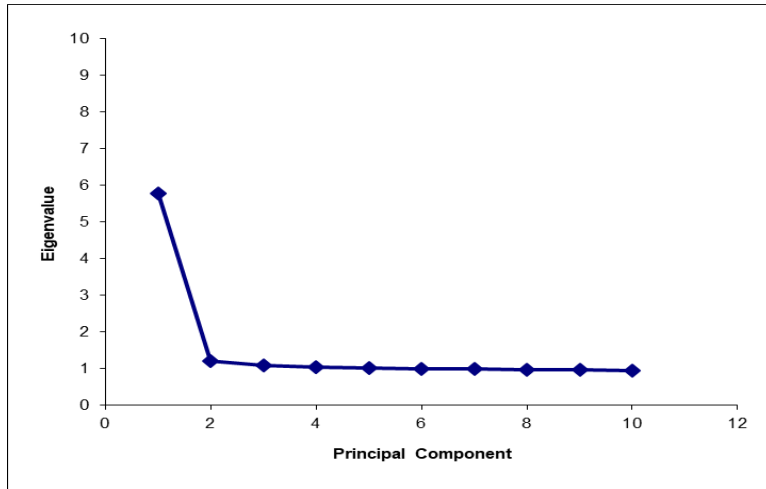


Figure 19. Science Grade 11, Operational Set #3 Principal Components Scree Plot

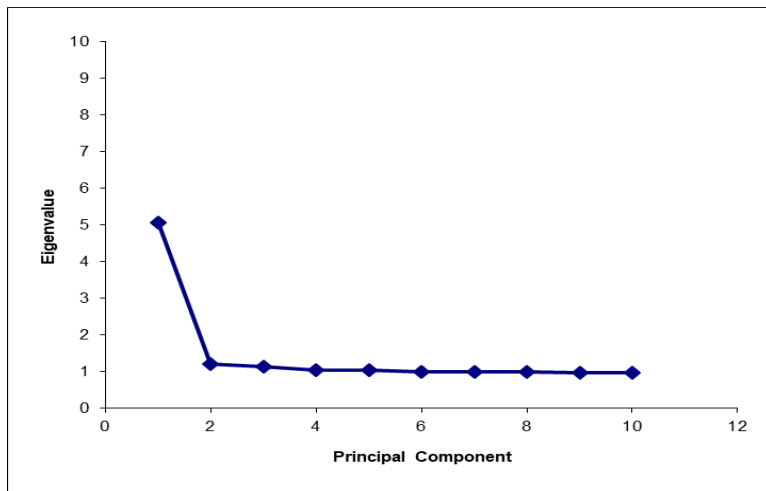


Figure 20. Science Grade 11, Operational Set #4 Principal Components Scree Plot

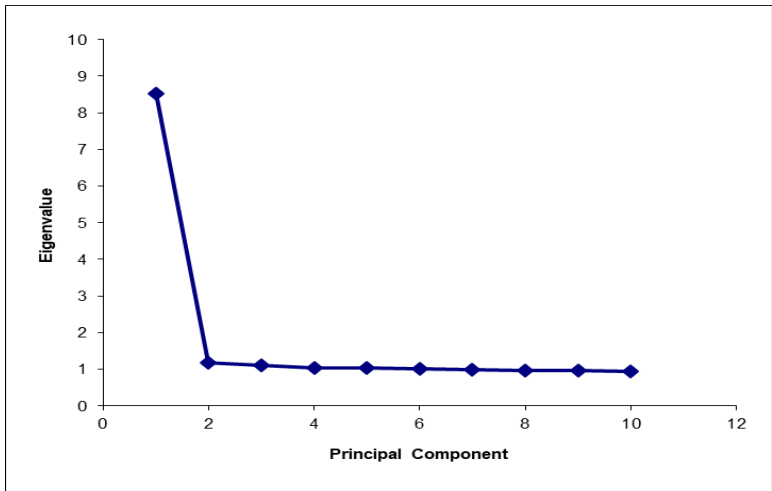


Figure 21. Social Studies Grade 5 Principal Components Scree Plot

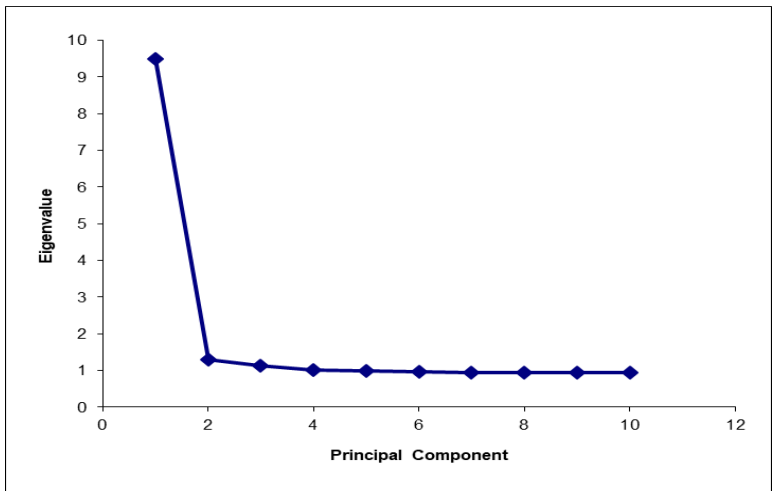


Figure 22. Social Studies Grade 8 Principal Components Scree Plot

Appendix R. Model Fit Indices for Confirmatory Factor Analysis

Subject	Grade	SRMR	RMSEA	RMSEA 90% Lower CL	RMSEA 90% Upper CL
Reading	3	0.0178	0.0209	0.0206	0.0212
	4	0.0177	0.0200	0.0198	0.0203
	5	0.0182	0.0206	0.0203	0.0208
	6	0.0149	0.0177	0.0175	0.0180
	7	0.0167	0.0192	0.0189	0.0194
	8	0.0208	0.0228	0.0226	0.0231
Mathematics	3	0.0239	0.0275	0.0273	0.0278
	4	0.0219	0.0244	0.0242	0.0246
	5	0.0272	0.0308	0.0305	0.0310
	6	0.0238	0.0274	0.0271	0.0276
	7	0.0215	0.0246	0.0243	0.0248
	8	0.0217	0.0247	0.0245	0.0249
Science ¹⁶	4(a)	0.0168	0.0195	0.0190	0.0200
	4(b)	0.0137	0.0153	0.0148	0.0158
	7(a)	0.0189	0.0228	0.0223	0.0233
	7(b)	0.0150	0.0173	0.0168	0.0178
	11(a)	0.0249	0.0280	0.0272	0.0287
	11(b)	0.0184	0.0198	0.0190	0.0207
	11(c)	0.0184	0.0214	0.0206	0.0222
	11(d)	0.0170	0.0184	0.0176	0.0193
Social Studies	5	0.0160	0.0195	0.0193	0.0197
	8	0.0175	0.0214	0.0212	0.0217

¹⁶ *a, b, c, and d* represent the multiple operational sets administered.

Appendix S. Correlations of Total Test and Subdomain Scores

Reading

Grade	Subdomain	Reading Total	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
3	Reading Total	1.00				
	Key Ideas	0.78	1.00			
	Craft and Structure	0.87	0.58	1.00		
	Integration of Ideas	0.88	0.57	0.68	1.00	
	Vocabulary and Acquisition	0.82	0.55	0.62	0.62	1.00
4	Reading Total	1.00				
	Key Ideas	0.86	1.00			
	Craft and Structure	0.77	0.55	1.00		
	Integration of Ideas	0.87	0.63	0.56	1.00	
	Vocabulary and Acquisition	0.78	0.57	0.52	0.56	1.00
5	Reading Total	1.00				
	Key Ideas	0.81	1.00			
	Craft and Structure	0.81	0.56	1.00		
	Integration of Ideas	0.85	0.60	0.55	1.00	
	Vocabulary and Acquisition	0.83	0.58	0.59	0.59	1.00
6	Reading Total	1.00				
	Key Ideas	0.84	1.00			
	Craft and Structure	0.86	0.63	1.00		
	Integration of Ideas	0.90	0.67	0.69	1.00	
	Vocabulary and Acquisition	0.80	0.61	0.59	0.61	1.00
7	Reading Total	1.00				
	Key Ideas	0.85	1.00			
	Craft and Structure	0.87	0.66	1.00		
	Integration of Ideas	0.84	0.60	0.63	1.00	
	Vocabulary and Acquisition	0.84	0.63	0.65	0.58	1.00
8	Reading Total	1.00				
	Key Ideas	0.88	1.00			
	Craft and Structure	0.86	0.70	1.00		
	Integration of Ideas	0.81	0.61	0.61	1.00	
	Vocabulary and Acquisition	0.85	0.65	0.64	0.59	1.00

Mathematics (Grades 3-5)

Grade	Subdomain	Mathematics Total	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data Geometry
3	Mathematics Total	1.00				
	Operations and Algebraic Thinking	0.86	1.00			
	Number and Operations in Base Ten	0.88	0.70	1.00		
	Number and Operations - Fractions	0.86	0.67	0.67	1.00	
	Measurement and Data/Geometry	0.89	0.68	0.71	0.69	1.00
4	Mathematics Total	1.00				
	Operations and Algebraic Thinking	0.87	1.00			
	Number and Operations in Base Ten	0.85	0.66	1.00		
	Number and Operations - Fractions	0.87	0.68	0.67	1.00	
	Measurement and Data/Geometry	0.90	0.70	0.68	0.70	1.00
5	Mathematics Total	1.00				
	Operations and Algebraic Thinking	0.87	1.00			
	Number and Operations in Base Ten	0.89	0.72	1.00		
	Number and Operations - Fractions	0.87	0.67	0.70	1.00	
	Measurement and Data/Geometry	0.89	0.70	0.71	0.70	1.00

Mathematics (Grade 6 and 7)

Grade	Subdomain	Mathematics Total	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
6	Mathematics Total	1.00					
	Ratios and Proportional Relationships	0.84	1.00				
	The Number System	0.86	0.66	1.00			
	Expressions and Equations	0.86	0.63	0.68	1.00		
	Geometry	0.86	0.64	0.66	0.67	1.00	
	Statistics and Probability	0.81	0.61	0.63	0.60	0.62	1.00
7	Mathematics Total	1.00					
	Ratios and Proportional Relationships	0.86	1.00				
	The Number System	0.81	0.62	1.00			
	Expressions and Equations	0.88	0.69	0.64	1.00		
	Geometry	0.84	0.66	0.60	0.68	1.00	
	Statistics and Probability	0.84	0.65	0.58	0.67	0.64	1.00

Mathematics (Grade 8)

Grade	Subdomain	Mathematics Total	The Number System Expressions and Equations	Functions	Geometry	Statistics and Probability
8	Mathematics Total	1.00				
	The Number System/Expressions and Equations	0.90	1.00			
	Functions	0.87	0.71	1.00		
	Geometry	0.90	0.72	0.71	1.00	
	Statistics and Probability	0.83	0.66	0.66	0.67	1.00

Science¹⁷

Grade	Subdomain	Science Total	Life Science	Physical Science	Earth and Space Science	Engineering Design
4(a)	Science Total	1.00				
	Life Science	0.81	1.00			
	Physical Science	0.82	0.52	1.00		
	Earth and Space Science	0.89	0.60	0.59	1.00	
	Engineering Design	0.34	0.19	0.20	0.19	1.00
4(b)	Science Total	1.00				
	Life Science	0.59	1.00			
	Physical Science	0.83	0.35	1.00		
	Earth and Space Science	0.88	0.37	0.58	1.00	
	Engineering Design	0.62	0.29	0.41	0.46	1.00
7(a)	Science Total	1.00				
	Life Science	0.82	1.00			
	Physical Science	0.84	0.56	1.00		
	Earth and Space Science	0.78	0.53	0.49	1.00	
	Engineering Design	0.62	0.38	0.39	0.39	1.00
7(b)	Science Total	1.00				
	Life Science	0.84	1.00			
	Physical Science	0.82	0.55	1.00		
	Earth and Space Science	0.74	0.52	0.47	1.00	
	Engineering Design	0.77	0.56	0.50	0.45	1.00
11(a)	Science Total	1.00				
	Life Science	0.87	1.00			
	Physical Science	0.73	0.46	1.00		
	Earth and Space Science	0.82	0.59	0.48	1.00	
	Engineering Design	0.78	0.60	0.46	0.58	1.00
11(b)	Science Total	1.00				
	Life Science	0.86	1.00			
	Physical Science	0.78	0.52	1.00		
	Earth and Space Science	0.80	0.58	0.48	1.00	
	Engineering Design	0.71	0.51	0.45	0.47	1.00
11(c)	Science Total	1.00				
	Life Science	0.90	1.00			
	Physical Science	0.74	0.53	1.00		
	Earth and Space Science	0.81	0.63	0.48	1.00	
	Engineering Design	0.71	0.56	0.42	0.48	1.00
11(d)	Science Total	1.00				
	Life Science	0.86	1.00			
	Physical Science	0.77	0.50	1.00		
	Earth and Space Science	0.79	0.56	0.46	1.00	
	Engineering Design	0.77	0.57	0.46	0.54	1.00

¹⁷ *a, b, c, and d* represent the multiple operational sets administered.

Social Studies

Grade	Subdomain	Social Studies Total	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
5	Social Studies Total	1.00					
	Government and Civics	0.86	1.00				
	Cultures and Societies	0.81	0.62	1.00			
	Economics	0.84	0.66	0.64	1.00		
	Geography	0.76	0.57	0.54	0.57	1.00	
	Historical Perspective	0.87	0.66	0.62	0.64	0.58	1.00
8	Social Studies Total	1.00					
	Government and Civics	0.86	1.00				
	Cultures and Societies	0.82	0.63	1.00			
	Economics	0.84	0.65	0.65	1.00		
	Geography	0.83	0.63	0.64	0.65	1.00	
	Historical Perspective	0.89	0.70	0.65	0.65	0.66	1.00

Appendix T. Operational Constructed-Response Item Omit Rates

Reading

Grade	Item Type	Omit Rate
3	Short Answer	1%
	Short Answer	5%
4	Short Answer	1%
	Short Answer	1%
	Extended Response	2%
5	Short Answer	0%
	Short Answer	0%
	Extended Response	1%
6	Short Answer	0%
	Short Answer	1%
	Extended Response	1%
7	Short Answer	1%
	Short Answer	2%
	Extended Response	0%
8	Short Answer	1%
	Short Answer	0%
	Extended Response	1%

Mathematics

Grade	Item Type	Omit Rate
3	Short Answer	2%
	Short Answer	2%
	Short Answer	1%
4	Short Answer	1%
	Short Answer	1%
	Short Answer	1%
	Extended Response	2%
5	Short Answer	1%
	Short Answer	1%
	Short Answer	1%
	Extended Response	3%
6	Short Answer	1%
	Short Answer	1%
	Short Answer	1%
	Extended Response	2%
7	Short Answer	1%
	Short Answer	1%
	Short Answer	1%
	Extended Response	1%
8	Short Answer	1%
	Short Answer	1%
	Short Answer	1%
	Extended Response	2%

Science

Grade	Item Type	Omit Rate
4	Extended Response	1%
	Extended Response	1%
	Extended Response	1%
	Extended Response	2%
	Extended Response	1%
	Extended Response	1%
	Extended Response	1%
7	Extended Response	1%
	Extended Response	1%
	Extended Response	2%
	Extended Response	2%
	Extended Response	1%
	Extended Response	1%
	Extended Response	1%
11	Extended Response	1%
	Extended Response	2%
	Extended Response	3%
	Extended Response	3%
	Extended Response	1%
	Extended Response	2%
	Extended Response	3%
	Extended Response	1%
	Extended Response	4%
	Extended Response	4%

Social Studies

Grade	Item Type	Omit Rate
5	Extended Response	0%
	Extended Response	1%
	Extended Response	0%
8	Extended Response	0%
	Extended Response	1%
	Extended Response	1%