

# Kentucky Performance Rating for Educational Progress



## 2017–18 Yearbook

Version 2.0



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 Rates<sup>1</sup>

Students	Subgroup	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
All	Students Tested	51,207	52,166	52,523	50,756	49,783	49,712	46,059
Gender	Female	48.5%	48.4%	48.7%	48%	48.4%	48.5%	48.8%
	Male	50.7%	50.8%	50.6%	51.2%	50.9%	50.7%	50.6%
	Missing	0.9%	0.7%	0.7%	0.7%	0.7%	0.7%	0.5%
Ethnicity	Hispanic	7.4%	7.5%	7.3%	7%	6.5%	6%	5.3%
	Asian	1.6%	1.6%	1.7%	1.7%	1.8%	1.8%	1.8%
	Native Hawaiian/Pacific Islander	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
	Black/African American	10.4%	10.5%	10.4%	10%	10.4%	10.2%	10.4%
	American Indian	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
	White	74.6%	74.7%	74.9%	75.8%	76.3%	77.4%	78.3%
	Other	4.7%	4.4%	4.4%	4%	3.7%	3.2%	2.5%
Migrant	Missing	1%	1%	1.1%	1.2%	1%	1.1%	1.3%
	Non-Migrant	99.5%	99.6%	99.6%	99.6%	99.7%	99.6%	99.8%
LEP	Migrant	0.5%	0.4%	0.4%	0.4%	0.3%	0.4%	0.2%
	Non-LEP	94.2%	95.1%	96.8%	97.7%	97.7%	97.8%	97.8%
Economic Disadvantage	LEP	5.8%	4.9%	3.2%	2.3%	2.3%	2.2%	2.2%
	Free Lunch	58.5%	58%	56.8%	55.5%	54.2%	52.7%	46.7%
	Reduced-Price Lunch	3.9%	3.9%	4%	4.1%	4.1%	4.1%	4%
IEP	Regular Lunch	37.6%	38.1%	39.2%	40.4%	41.8%	43.2%	49.3%
	Non-IEP	85%	85.6%	86.9%	88.4%	89.2%	89.9%	91.8%
	IEP	15%	14.4%	13.1%	11.6%	10.8%	10.1%	8.2%

<sup>1</sup> 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

## 2018 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

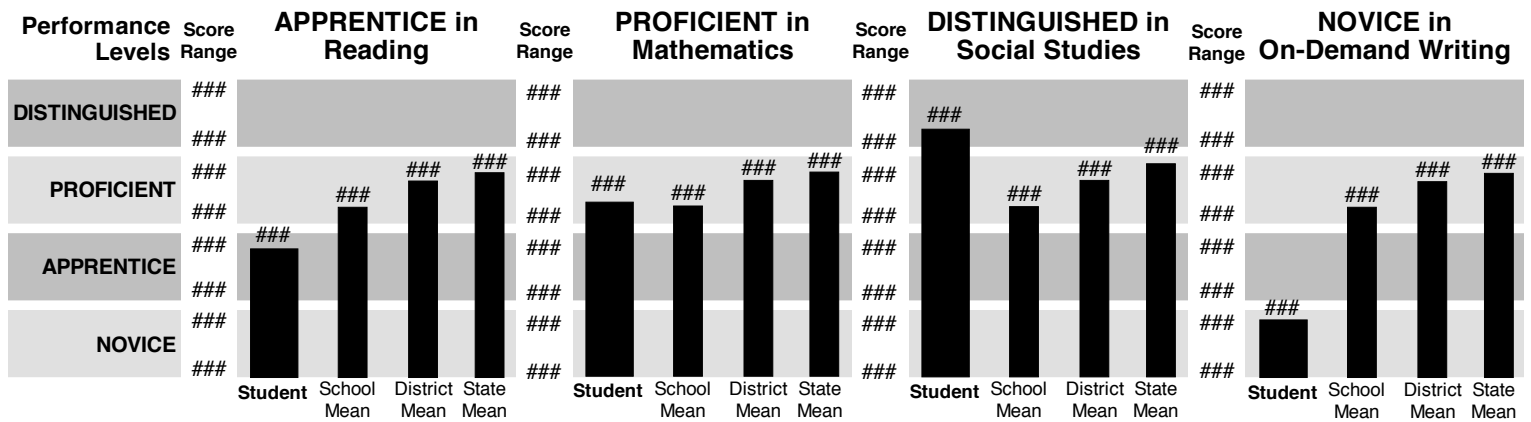


This report provides specific information about your student's performance on the K-PREP test. It also includes information for teachers and parents/guardians about how to support student learning. The K-PREP test is only one indication of how well students do in each subject tested; therefore, it is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

(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](http://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](http://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](http://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](http://www.education.ky.gov).



# TESTED STUDENTS SCHOOL LISTING

## 2018 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999999  
 School: SCHOOL NAME  
 District: DISTRICT NAME

### GRADE 5



Student Name	Student ID	Accommodated	Alternate K-PREP <sup>1</sup>	Reading			Mathematics			Social Studies		On-Demand Writing	
				Performance Level <sup>2</sup>	Scale Score <sup>3</sup>	Lexile <sup>4</sup>	Performance Level <sup>2</sup>	Scale Score <sup>3</sup>	Quantile <sup>5</sup>	Performance Level <sup>2</sup>	Scale Score <sup>3</sup>	Performance Level <sup>2</sup>	Scale Score <sup>3</sup>
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y	B	P	###		P	###		P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	#####L	A	###	#####Q	A	###	A	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	#####L	N	###	#####Q	N	###	N	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	#####L	N	###	#####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			A	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	#####L	A	###	#####Q	A	###	A	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	N	###	#####Q	N	###	N	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	#####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			A	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y		N	###	#####L	P	###	#####Q	P	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	#####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			A	###	#####L	D	###	#####Q	D	###	D	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	BR###L	N	###	EM###Q	N	###	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	#####L	D	###	#####Q	D	###	D	###

1 A = Dimension A; B = Dimension B

2 The performance level designations are D = Distinguished, P = Proficient, A = Apprentice and N = Novice

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

## 2018 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999999  
 School: SCHOOL NAME  
 District: DISTRICT NAME

### GRADE 5



Student Name	Student ID	Accommodated	Alternate K-PREP <sup>1</sup>	Reading			Mathematics			Social Studies		On-Demand Writing		
				Performance Level <sup>2</sup>	Scale Score <sup>3</sup>	Lexile <sup>4</sup>	Performance Level <sup>2</sup>	Scale Score <sup>3</sup>	Quantile <sup>5</sup>	Performance Level <sup>2</sup>	Scale Score <sup>3</sup>	Performance Level <sup>2</sup>	Scale Score <sup>3</sup>	
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	D	###	#####Q	D	###	D	###	
LASTNAME, FIRSTNAME, I.	9999999999	Y	B	P	###		P	###		P	###	P	###	
LASTNAME, FIRSTNAME, I.	9999999999			A	###	#####L	A	###	#####Q	A	###	A	###	
LASTNAME, FIRSTNAME, I.	9999999999			N	###	#####L	N	###	#####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			A	###	#####L	P	###	#####Q	P	###	P	###	
LASTNAME, FIRSTNAME, I.	9999999999			N	###	#####L	A	###	#####Q	A	###	A	###	
LASTNAME, FIRSTNAME, I.	9999999999			D	###	#####L	N	###	#####Q	N	###	N	###	
LASTNAME, FIRSTNAME, I.	9999999999			N	###	#####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			A	###	#####L	D	###	#####Q	D	###	D	###	
LASTNAME, FIRSTNAME, I.	9999999999	Y		N	###	#####L	P	###	#####Q	P	###	P	###	
LASTNAME, FIRSTNAME, I.	9999999999			A	###	#####L	D	###	#####Q	D	###	D	###	
LASTNAME, FIRSTNAME, I.	9999999999			N	###	#####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			A	###	#####L	D	###	#####Q	D	###	D	###	

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

1 A = Dimension A; B = Dimension B

2 The performance level designations are D = Distinguished, P = Proficient, A = Apprentice and N = Novice

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

## 2018 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	#,###			



Alternate students are included in Performance Level.

# TESTED STUDENTS SCHOOL SUMMARY

## 2018 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	#,###	###.#	###.#	###.#
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
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.

Alternate K-PREP students are included in Performance Level but not in Reporting Category.





# TESTED STUDENTS SCHOOL SUMMARY

## 2018 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	#,###			

Alternate K-PREP students are included in Performance Level.

# TESTED STUDENTS DISTRICT SUMMARY

## 2018 Kentucky Academic Standards Assessment

Code: 999

District: DISTRICT NAME

### Grade 4 Science



DISTRICT NAME

DISTRICT NAME		Number Students Tested	Total Science	Performance Level			
				Novice	Apprentice	Proficient	Distinguished
School Name	Code	Scale Score	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 students are included in Performance Level.

# TESTED STUDENTS DISTRICT SUMMARY

## 2018 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999

District: DISTRICT NAME

### Grade 6 Mathematics



DISTRICT NAME

School Name	Code	Number Students Tested	Scale Score	Performance Level				Reporting Category <sup>1</sup>				
				Novice	Apprentice	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

<sup>1</sup> 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

## 2018 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999

District: DISTRICT NAME

### Grade 6 Mathematics



DISTRICT NAME

School Name	Code	Number Students Tested	Scale Score	Performance Level				Reporting Category <sup>1</sup>				
				Novice	Apprentice	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	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

<sup>1</sup> 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.

\*\*\*\* 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.

# TESTED STUDENTS DISTRICT SUMMARY

## 2018 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 <sup>1</sup>			
				Novice	Apprentice	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

<sup>1</sup> 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

## 2018 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: 999

District: DISTRICT NAME

### Grade 11 On-Demand Writing



DISTRICT NAME

DISTRICT NAME		Number Students Tested	Scale Score	Performance Level			
				Novice	Apprentice	Proficient	Distinguished
School Name	Code			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

## 2018 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 <sup>1</sup>				
				Novice	Apprentice	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

<sup>1</sup> 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

## 2018 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 <sup>1</sup>				
				Novice	Apprentice	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

<sup>1</sup> 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	13	14	--	0.66	36
	4	1	15	12	7	--	0.58	35
	5	--	13	12	10	--	0.62	35
	6	--	11	28	3	--	0.60	42
	7	1	18	16	7	--	0.58	42
	8	2	16	17	7	--	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	23	16	4	--	0.53	44
	7	--	25	15	4	--	0.55	44
	8	--	21	20	3	--	0.54	44
Science	4	7	20	13	3	--	0.48	43
	7	10	24	6	--	--	0.39	40
Social Studies	5	--	6	32	6	--	0.64	44
	8	--	14	25	5	--	0.61	44

#### *Multi-select/Constructed Response<sup>2</sup>*

Subject	Grade	<i>Multi-select/Short Answer</i>				<i>Extended Response</i>			
		N	Mean	Min	Max	N	Mean	Min	Max
Reading	3	2	1.13	1.07	1.19	-	--	--	--
	4	2	0.99	0.78	1.20	1	1.69	1.69	1.69
	5	2	1.13	0.91	1.34	1	1.66	1.66	1.66
	6	2	0.95	0.91	0.98	1	1.47	1.47	1.47
	7	2	1.06	0.95	1.17	1	2.60	2.60	2.60
	8	2	1.26	1.25	1.26	1	1.92	1.92	1.92
Mathematics	3	3	1.06	0.85	1.26	-	--	---	--
	4	3	0.80	0.51	1.04	1	1.64	1.64	1.64
	5	3	0.81	0.66	0.91	1	1.26	1.26	1.26
	6	3	1.03	0.85	1.36	1	1.31	1.31	1.31
	7	3	0.72	0.48	0.97	1	1.39	1.39	1.39
	8	3	0.79	0.39	1.01	1	1.86	1.86	1.86
Science	4	6	1.03	0.70	1.35	7	1.30	0.76	1.89
	7	9	0.96	0.82	1.12	7	1.09	0.63	1.57
Social Studies	5	-	--	--	--	3	1.51	1.28	1.93
	8	-	--	--	--	3	2.43	2.39	2.45

<sup>2</sup> 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	--	10	26	--	--	0.43	36
	4	2	20	13	--	--	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	15	24	--	--	0.40	42
Mathematics	3	--	10	34	--	--	0.44	44
	4	--	12	32	--	--	0.43	44
	5	1	8	35	--	--	0.44	44
	6	--	18	26	--	--	0.43	44
	7	--	15	29	--	--	0.42	44
	8	1	16	27	--	--	0.42	44
Science	4	7	24	12	--	--	0.35	43
	7	9	22	9	--	--	0.32	40
Social Studies	5	--	17	27	--	--	0.41	44
	8	--	13	30	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	0.46	0.40	0.51	-	-	-	-
	4	2	0.49	0.45	0.52	1	0.61	0.61	0.61
	5	2	0.46	0.39	0.52	1	0.46	0.46	0.46
	6	2	0.54	0.53	0.54	1	0.53	0.53	0.53
	7	2	0.45	0.41	0.49	1	0.55	0.55	0.55
	8	2	0.46	0.40	0.51	1	0.56	0.56	0.56
Mathematics	3	3	0.56	0.51	0.57	-	-	-	-
	4	3	0.58	0.47	0.59	1	0.59	0.59	0.59
	5	3	0.53	0.46	0.56	1	0.55	0.55	0.55
	6	3	0.54	0.44	0.62	1	0.64	0.64	0.64
	7	3	0.43	0.40	0.62	1	0.69	0.69	0.69
	8	3	0.53	0.47	0.58	1	0.69	0.69	0.69
Science	4	6	0.36	0.22	0.57	7	0.58	0.53	0.64
	7	9	0.41	0.16	0.53	7	0.65	0.61	0.69
Social Studies	5	-	-	-	-	3	0.52	0.47	0.58
	8	-	-	-	-	3	0.48	0.46	0.54

# 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	16	22	--	--	--	--
	White-Black	20	17	--	1	--	--
	White-Hispanic	21	15	--	1	--	1
4	Male-Female	20	16	1	--	--	1
	White-Black	20	18	--	--	--	--
	White-Hispanic	22	15	--	1	--	--
5	Male-Female	17	19	1	1	--	--
	White-Black	18	20	--	--	--	--
	White-Hispanic	20	17	--	1	--	--
6	Male-Female	22	18	1	3	--	1
	White-Black	23	22	--	--	--	--
	White-Hispanic	24	21	--	--	--	--
7	Male-Female	18	22	1	3	1	--
	White-Black	24	21	--	--	--	--
	White-Hispanic	22	22	--	--	--	1
8	Male-Female	18	24	1	--	1	1
	White-Black	19	26	--	--	--	--
	White-Hispanic	21	24	--	--	--	--

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	25	21	1	--	--	--
	White-Black	26	21	--	--	--	--
	White-Hispanic	25	22	--	--	--	--
4	Male-Female	23	25	--	--	--	--
	White-Black	24	24	--	--	--	--
	White-Hispanic	29	19	--	--	--	--
5	Male-Female	26	22	--	--	--	--
	White-Black	27	21	--	--	--	--
	White-Hispanic	27	21	--	--	--	--
6	Male-Female	18	29	--	1	--	--
	White-Black	25	23	--	--	--	--
	White-Hispanic	26	22	--	--	--	--
7	Male-Female	25	21	--	2	--	--
	White-Black	26	22	--	--	--	--
	White-Hispanic	29	19	--	--	--	--
8	Male-Female	22	24	1	1	--	--
	White-Black	29	19	--	--	--	--
	White-Hispanic	22	26	--	--	--	--

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	27	29	--	--	--	--
	White-Black	29	26	--	1	--	--
	White-Hispanic	23	33	--	--	--	--
7	Male-Female	13	40	3	--	--	--
	White-Black	29	26	--	1	--	--
	White-Hispanic	26	30	--	--	--	--

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	19	28	--	--	--	--
	White-Black	27	18	--	2	--	--
	White-Hispanic	26	20	--	1	--	--
8	Male-Female	14	26	1	4	2	--
	White-Black	25	22	--	--	--	--
	White-Hispanic	24	22	--	1	--	--

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

Subject	Grade	No. of Items	Item Difficulty					Infit				Outfit			
			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
Reading	3	38	-1.5224	-0.8052	-0.2419	0.4763	1.9037	-	38	-	-	-	38	-	-
	4	38	-1.7012	-0.2032	0.5627	1.1336	2.0475	-	38	-	-	-	38	-	-
	5	38	-1.9623	-0.3541	0.3443	0.9650	1.6257	-	38	-	-	-	38	-	-
	6	45	-0.7472	0.1289	0.5846	0.8394	1.9583	-	45	-	-	-	45	-	-
	7	45	-1.7644	-0.2100	0.4337	0.8783	2.1033	-	45	-	-	-	45	-	-
	8	45	-1.5539	-0.1735	0.3931	1.0399	2.0222	-	45	-	-	-	44	1	-
Mathematics	3	47	-1.5086	-0.6806	0.2207	0.7726	1.8094	-	47	-	-	-	46	1	-
	4	48	-2.2138	-0.5516	-0.0330	0.7439	1.5393	-	48	-	-	-	48	-	-
	5	48	-1.7179	-0.6943	0.0600	0.7998	1.8016	-	48	-	-	-	47	1	-
	6	48	-1.7534	-0.1613	0.2743	0.9297	1.6652	-	48	-	-	-	48	-	-
	7	48	-1.7310	-0.4882	0.2334	0.5754	1.3493	-	48	-	-	-	47	1	-
	8	48	-1.5388	-0.3128	0.2270	0.7568	1.7441	-	48	-	-	-	48	-	-
Science	4	56	-2.2846	-0.5483	0.0358	0.5259	1.9279	-	56	-	-	-	55	1	-
	7	56	-1.5209	-0.3462	-0.0842	0.4461	1.7266	-	56	-	-	-	55	1	-

## 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**

<b>Form</b>	<b>Raw Score</b>	<b>Scale Score</b>	<b>Conditional SEM</b>	<b>Form</b>	<b>Raw Score</b>	<b>Scale Score</b>	<b>Conditional SEM</b>	<b>Form</b>	<b>Raw Score</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
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	192	6
03	0	100	34	03	33	222	6	04	17	194	6
03	1	134	17	03	34	224	6	04	18	196	5
03	2	147	12	03	35	226	6	04	19	198	5
03	3	154	10	03	36	228	6	04	20	200	5
03	4	160	9	03	37	231	6	04	21	201	5
03	5	164	8	03	38	233	6	04	22	203	5
03	6	168	8	03	39	235	6	04	23	205	5
03	7	171	7	03	40	238	7	04	24	207	5
03	8	174	7	03	41	241	7	04	25	208	5
03	9	177	7	03	42	244	7	04	26	210	5
03	10	180	6	03	43	247	8	04	27	212	5
03	11	182	6	03	44	251	9	04	28	213	5
03	12	184	6	03	45	257	10	04	29	215	5
03	13	187	6	03	46	264	12	04	30	217	5
03	14	189	6	03	47	275	17	04	31	219	5
03	15	191	6	03	48	299	33	04	32	221	6
03	16	192	6	04	0	100	34	04	33	222	6
03	17	194	6	04	1	134	17	04	34	224	6
03	18	196	5	04	2	147	12	04	35	226	6
03	19	198	5	04	3	154	10	04	36	228	6
03	20	200	5	04	4	160	9	04	37	231	6
03	21	201	5	04	5	164	8	04	38	233	6
03	22	203	5	04	6	168	8	04	39	235	6
03	23	205	5	04	7	171	7	04	40	238	7
03	24	207	5	04	8	174	7	04	41	241	7
03	25	208	5	04	9	177	7	04	42	244	7
03	26	210	5	04	10	180	6	04	43	247	8
03	27	212	5	04	11	182	6	04	44	251	9
03	28	213	5	04	12	184	6	04	45	257	10
03	29	215	5	04	13	187	6	04	46	264	12
03	30	217	5	04	14	189	6	04	47	275	17
03	31	219	5	04	15	191	6	04	48	299	33

Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM
05	0	100	34	05	33	226	5	06	18	202	5
05	1	143	17	05	34	228	6	06	19	204	5
05	2	155	12	05	35	230	6	06	20	205	5
05	3	163	10	05	36	232	6	06	21	207	5
05	4	168	9	05	37	234	6	06	22	209	5
05	5	172	8	05	38	236	6	06	23	210	5
05	6	176	8	05	39	238	7	06	24	212	5
05	7	179	7	05	40	241	7	06	25	213	5
05	8	182	7	05	41	244	7	06	26	215	5
05	9	185	6	05	42	248	8	06	27	216	5
05	10	187	6	05	43	252	9	06	28	218	5
05	11	189	6	05	44	257	10	06	29	219	5
05	12	192	6	05	45	265	12	06	30	221	5
05	13	194	6	05	46	277	17	06	31	223	5
05	14	195	6	05	47	300	34	06	32	224	5
05	15	197	5	06	0	100	34	06	33	226	5
05	16	199	5	06	1	143	17	06	34	228	6
05	17	201	5	06	2	155	12	06	35	230	6
05	18	202	5	06	3	163	10	06	36	232	6
05	19	204	5	06	4	168	9	06	37	234	6
05	20	205	5	06	5	172	8	06	38	236	6
05	21	207	5	06	6	176	8	06	39	238	7
05	22	209	5	06	7	179	7	06	40	241	7
05	23	210	5	06	8	182	7	06	41	244	7
05	24	212	5	06	9	185	6	06	42	248	8
05	25	213	5	06	10	187	6	06	43	252	9
05	26	215	5	06	11	189	6	06	44	257	10
05	27	216	5	06	12	192	6	06	45	265	12
05	28	218	5	06	13	194	6	06	46	277	17
05	29	219	5	06	14	195	6	06	47	300	34
05	30	221	5	06	15	197	5				
05	31	223	5	06	16	199	5				
05	32	224	5	06	17	201	5				

**Grade 7 Science**

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

Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM	Form	Raw Score	Scale Score	Conditional SEM
04	45	260	10	05	29	217	5	06	10	185	6
04	46	267	12	05	30	218	5	06	11	188	6
04	47	280	17	05	31	220	5	06	12	190	6
04	48	300	33	05	32	221	5	06	13	192	6
05	0	100	34	05	33	223	5	06	14	194	6
05	1	141	17	05	34	225	5	06	15	195	5
05	2	153	12	05	35	226	5	06	16	197	5
05	3	161	10	05	36	228	5	06	17	199	5
05	4	166	9	05	37	230	5	06	18	200	5
05	5	171	8	05	38	231	6	06	19	202	5
05	6	174	8	05	39	233	6	06	20	204	5
05	7	178	7	05	40	235	6	06	21	205	5
05	8	180	7	05	41	237	6	06	22	207	5
05	9	183	6	05	42	240	6	06	23	208	5
05	10	185	6	05	43	242	7	06	24	210	5
05	11	188	6	05	44	245	7	06	25	211	5
05	12	190	6	05	45	248	7	06	26	213	5
05	13	192	6	05	46	251	8	06	27	214	5
05	14	194	6	05	47	255	9	06	28	216	5
05	15	195	5	05	48	261	10	06	29	217	5
05	16	197	5	05	49	268	12	06	30	218	5
05	17	199	5	05	50	280	17	06	31	220	5
05	18	200	5	05	51	300	33	06	32	221	5
05	19	202	5	06	0	100	34	06	33	223	5
05	20	204	5	06	1	141	17	06	34	225	5
05	21	205	5	06	2	153	12	06	35	226	5
05	22	207	5	06	3	161	10	06	36	228	5
05	23	208	5	06	4	166	9	06	37	230	5
05	24	210	5	06	5	171	8	06	38	231	6
05	25	211	5	06	6	174	8	06	39	233	6
05	26	213	5	06	7	178	7	06	40	235	6
05	27	214	5	06	8	180	7	06	41	237	6
05	28	216	5	06	9	183	6	06	42	240	6

<b>Form</b>	<b>Raw Score</b>	<b>Scale Score</b>	<b>Conditional SEM</b>	<b>Form</b>	<b>Raw Score</b>	<b>Scale Score</b>	<b>Conditional SEM</b>	<b>Form</b>	<b>Raw Score</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
06	43	242	7	06	46	251	8	06	49	268	12
06	44	245	7	06	47	255	9	06	50	280	17
06	45	248	7	06	48	261	10	06	51	300	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

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

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

<b>Raw Score</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
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	18
01	1	114	11
01	2	126	10
01	3	138	10
01	4	156	14
01	5	174	10
01	6	185	9
01	7	196	10
01	8	212	13
01	9	227	10
01	10	238	9
01	11	248	10
01	12	264	13
01	13	279	9
01	14	288	8
01	15	297	10
01	16	300	17
02	0	100	18
02	1	103	11
02	2	120	13
02	3	137	11
02	4	156	14
02	5	174	10
02	6	185	9
02	7	196	10
02	8	215	15
02	9	233	10
02	10	242	8
02	11	251	9
02	12	267	14

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
02	13	284	9
02	14	293	8
02	15	300	10
02	16	300	17

### Grade 8 On Demand Writing

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
01	0	100	17
01	1	109	10
01	2	118	8
01	3	128	10
01	4	151	21
01	5	175	10
01	6	185	9
01	7	194	9
01	8	206	10
01	9	218	9
01	10	226	8
01	11	235	9
01	12	247	11
01	13	259	9
01	14	268	8
01	15	278	10
01	16	292	17
02	0	100	17
02	1	101	10
02	2	112	9
02	3	123	10
02	4	151	26
02	5	178	10

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
02	6	187	8
02	7	196	9
02	8	208	11
02	9	219	9
02	10	228	8
02	11	237	9
02	12	250	11
02	13	262	9
02	14	271	8
02	15	280	10
02	16	294	17

**Grade 11 On Demand Writing**

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
01	0	100	18
01	1	130	11
01	2	142	10
01	3	154	10
01	4	171	14
01	5	188	10
01	6	197	9
01	7	207	9
01	8	220	12
01	9	233	9

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
01	10	242	8
01	11	251	9
01	12	267	14
01	13	284	9
01	14	293	8
01	15	300	10
01	16	300	17
02	0	100	17
02	1	139	10
02	2	148	8
02	3	157	9
02	4	170	12
02	5	184	10
02	6	195	9
02	7	205	9
02	8	217	11
02	9	229	9
02	10	238	9
02	11	248	10
02	12	265	14
02	13	282	9
02	14	291	8
02	15	300	10
02	16	300	17

## 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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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



<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
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
13	4.1403	271	33	
Number and Operations in Base Ten	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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 5 Social Studies**

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
Government Civics	0	-3.7885	100	34
	1	-2.3189	164	18



<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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
1		-2.1836	167	18
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	34
	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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	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
	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

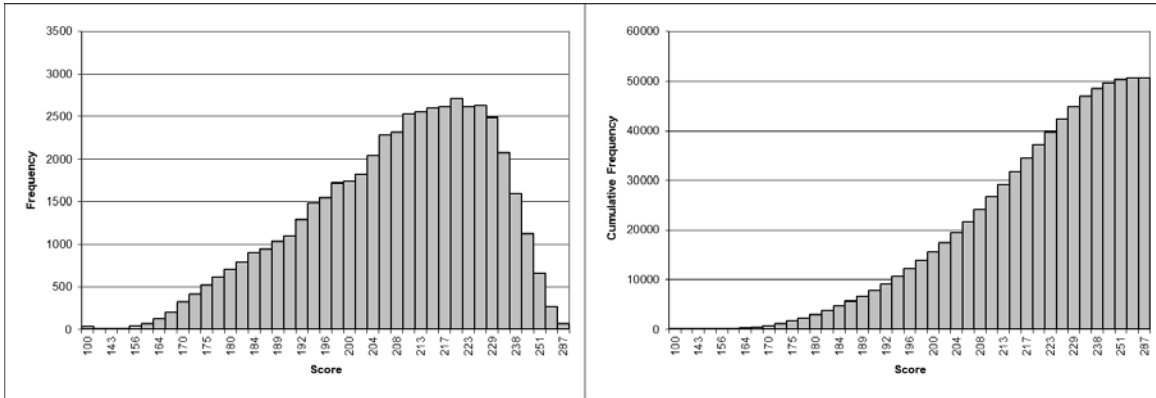
### Grade 8 Social Studies

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
Government Civics	0	-3.7525	100	34
	1	-2.2815	165	18

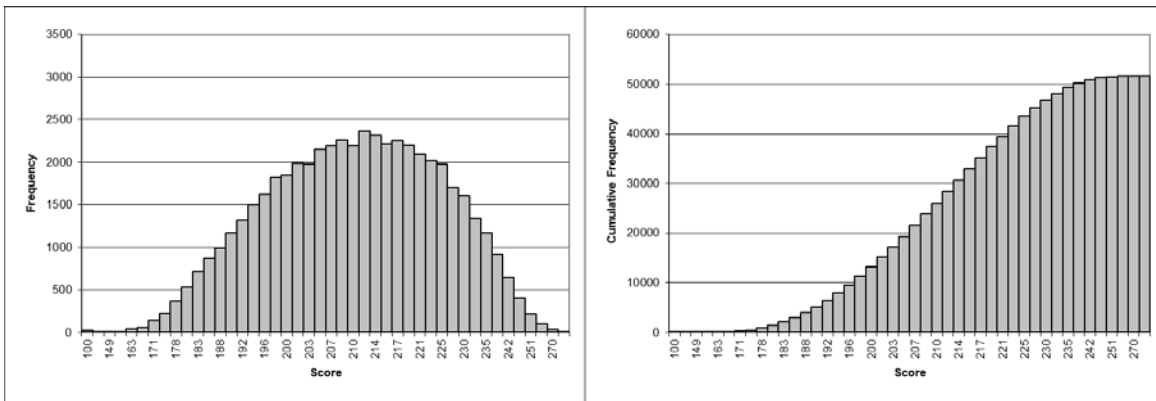
<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
	2	-1.4687	179	13
	3	-0.9343	187	11
	4	-0.5060	195	11
	5	-0.1275	201	10
	6	0.2301	207	10
	7	0.5867	213	10
	8	0.9628	219	10
	9	1.3869	226	11
	10	1.9157	235	13
	11	2.7214	248	18
	12	4.1863	273	34
	Cultures and Societies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

<b>Subdomain</b>	<b>Raw Score</b>	<b>Theta</b>	<b>Scale Score</b>	<b>Conditional SEM</b>
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
	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

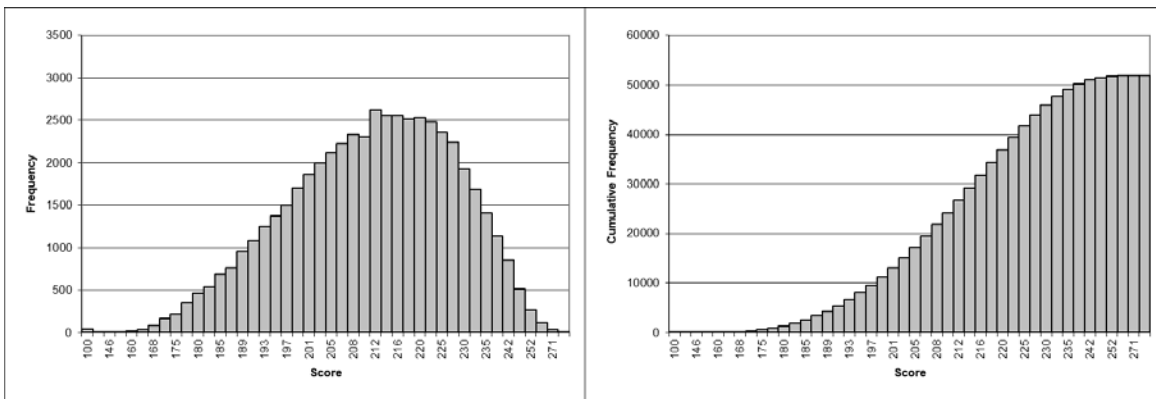
## Appendix I. Score Frequency Distributions<sup>3</sup>



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

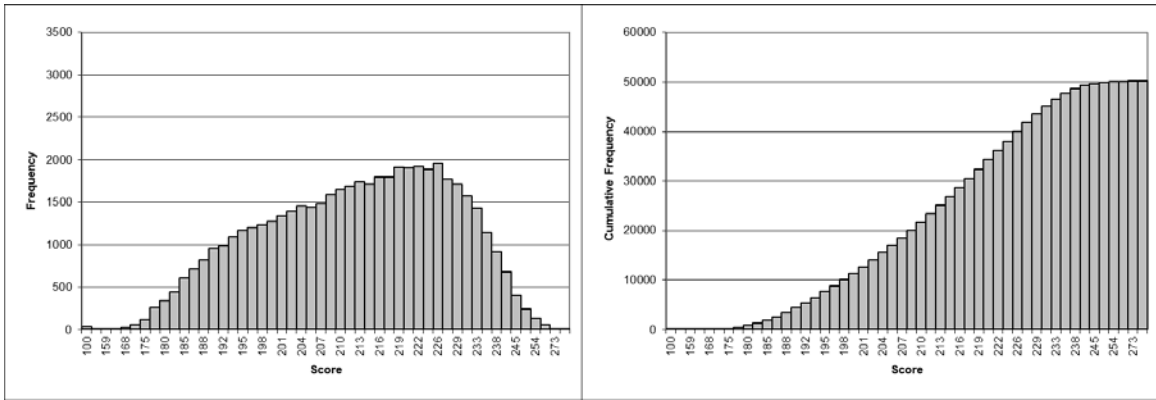


**Figure 2.** Reading Grade 4 Score Frequency and Cumulative Frequency Distributions

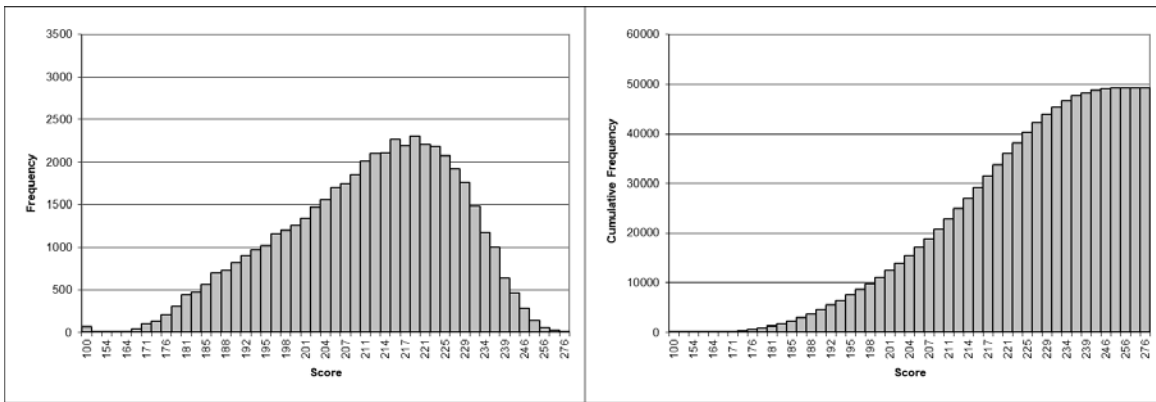


**Figure 3.** Reading Grade 5 Score Frequency and Cumulative Frequency Distributions

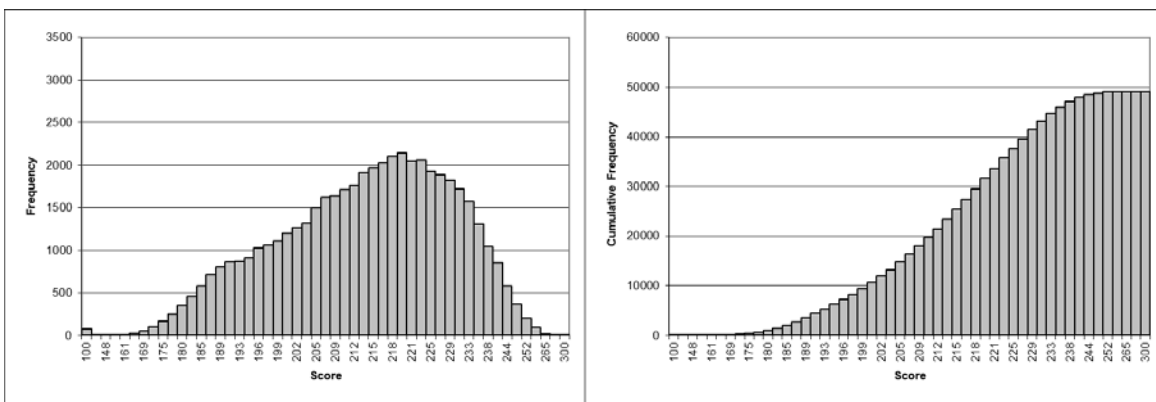
<sup>3</sup> Alternate K-PREP students are not included.



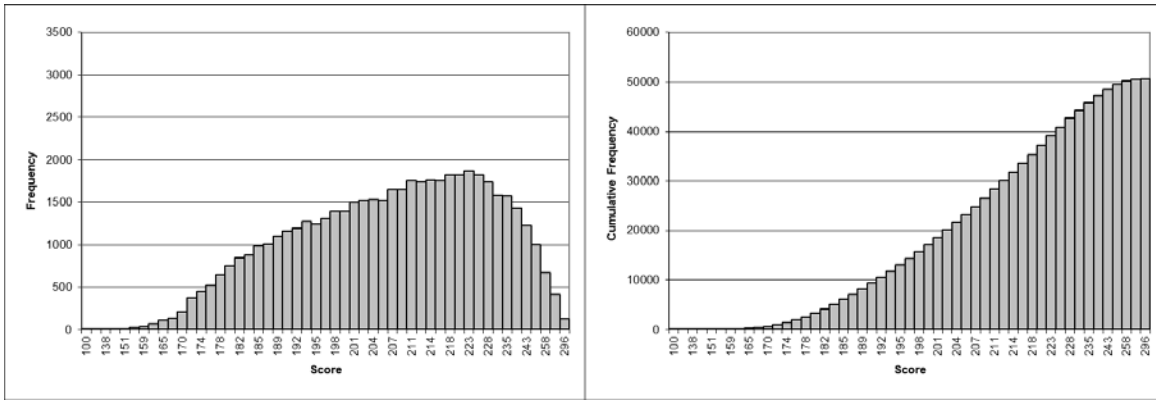
**Figure 4.** Reading Grade 6 Score Frequency and Cumulative Frequency Distributions



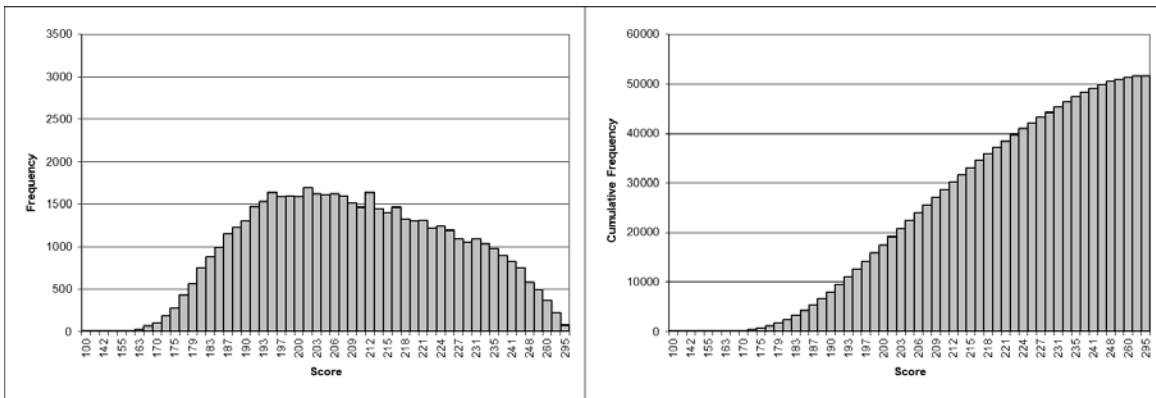
**Figure 5.** Reading Grade 7 Score Frequency and Cumulative Frequency Distributions



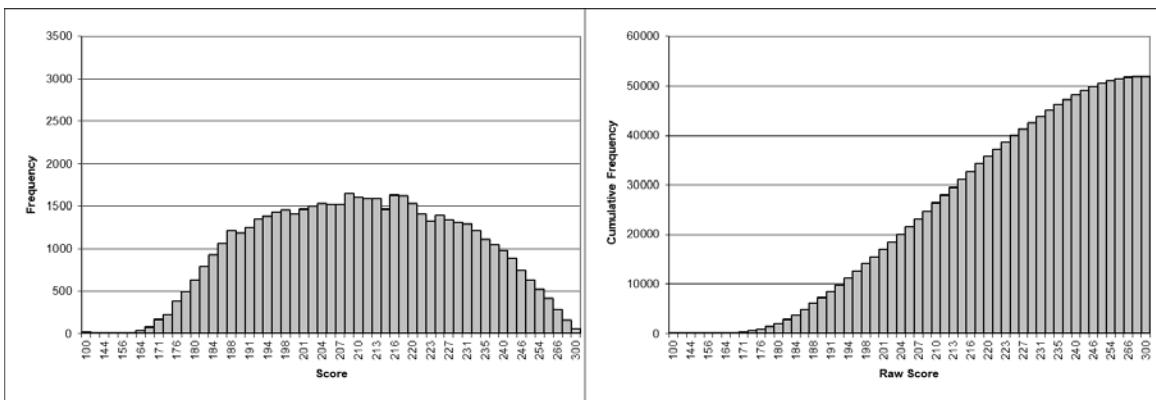
**Figure 6.** Reading Grade 8 Score Frequency and Cumulative Frequency Distributions



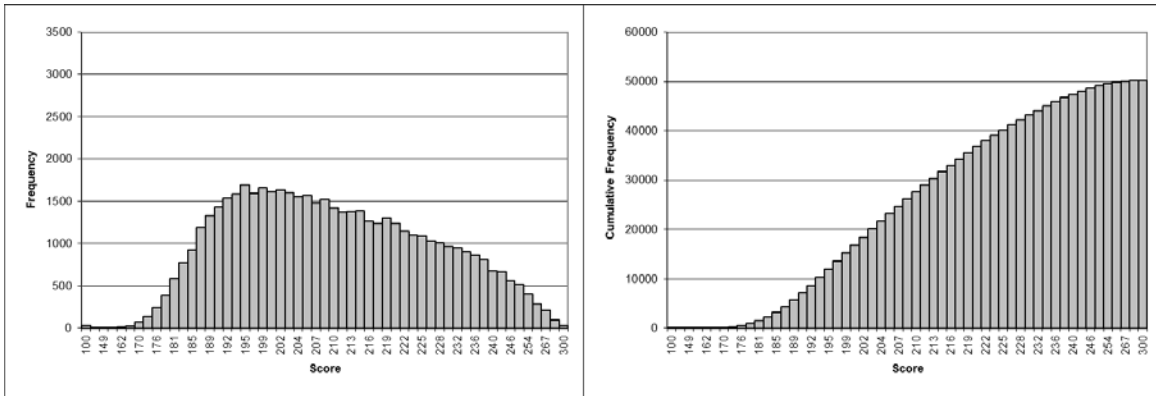
**Figure 7.** Mathematics Grade 3 Score Frequency and Cumulative Frequency Distributions



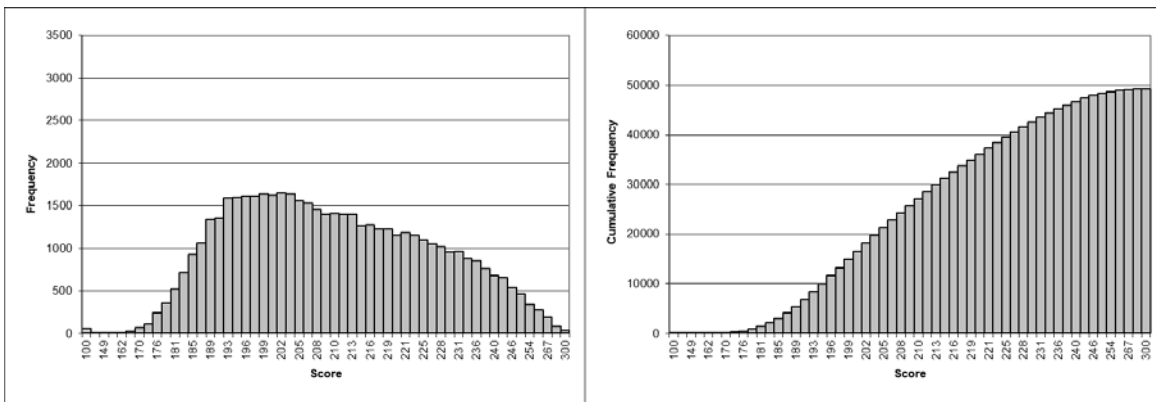
**Figure 8.** Mathematics Grade 4 Score Frequency and Cumulative Frequency Distributions



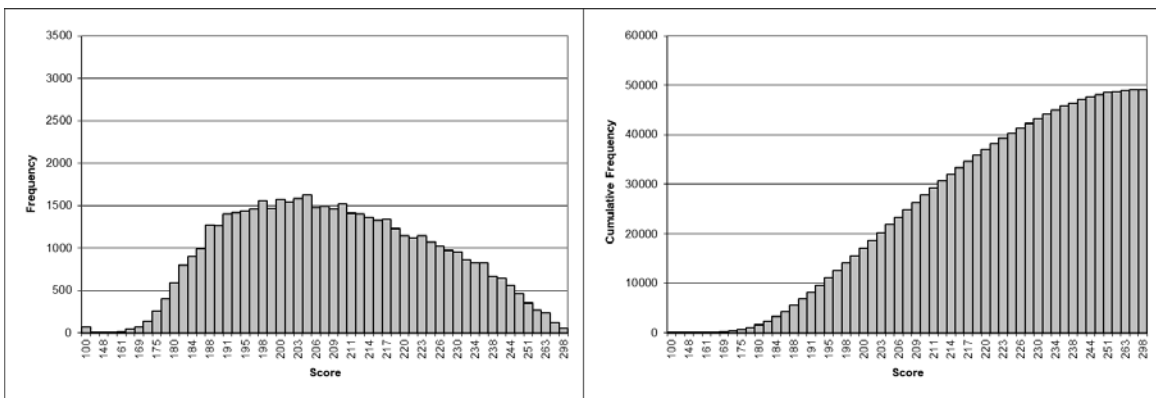
**Figure 9.** Mathematics Grade 5 Score Frequency and Cumulative Frequency Distributions



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

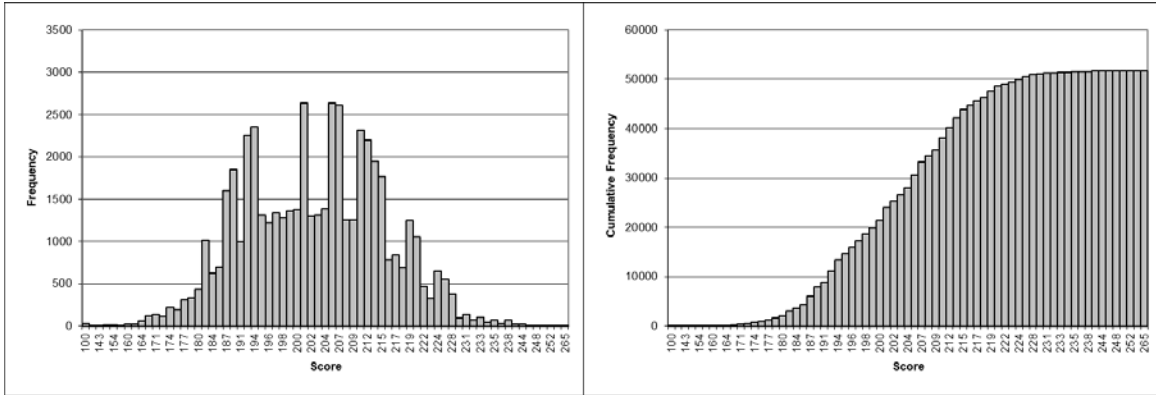


**Figure 11.** Mathematics Grade 7 Score Frequency and Cumulative Frequency Distributions

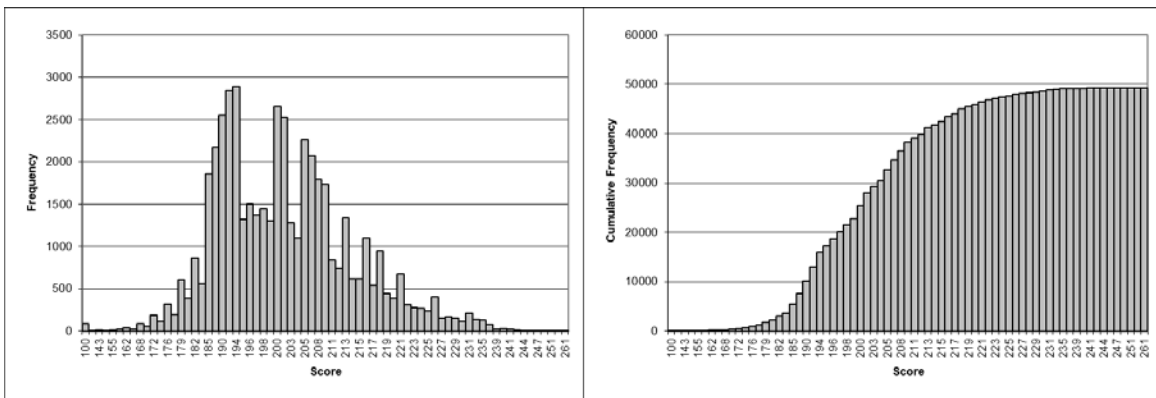


**Figure 12.** Mathematics Grade 8 Score Frequency and Cumulative Frequency Distributions

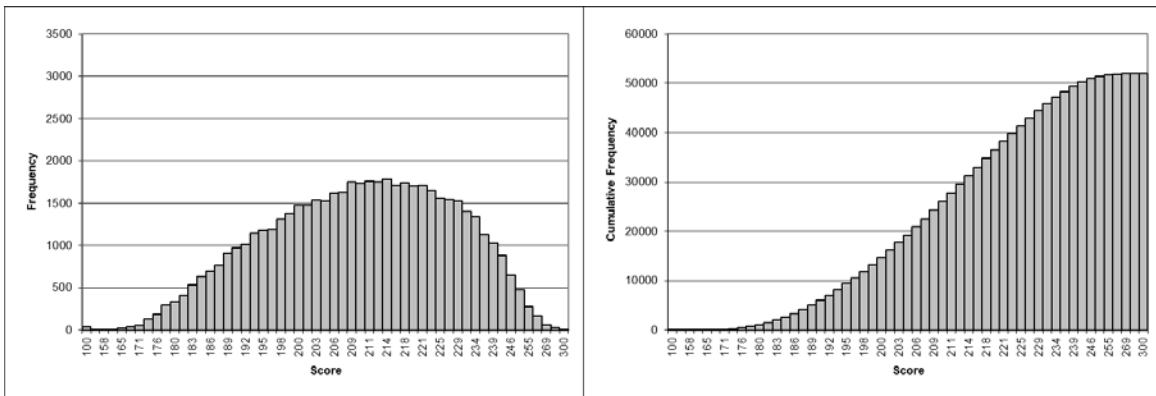




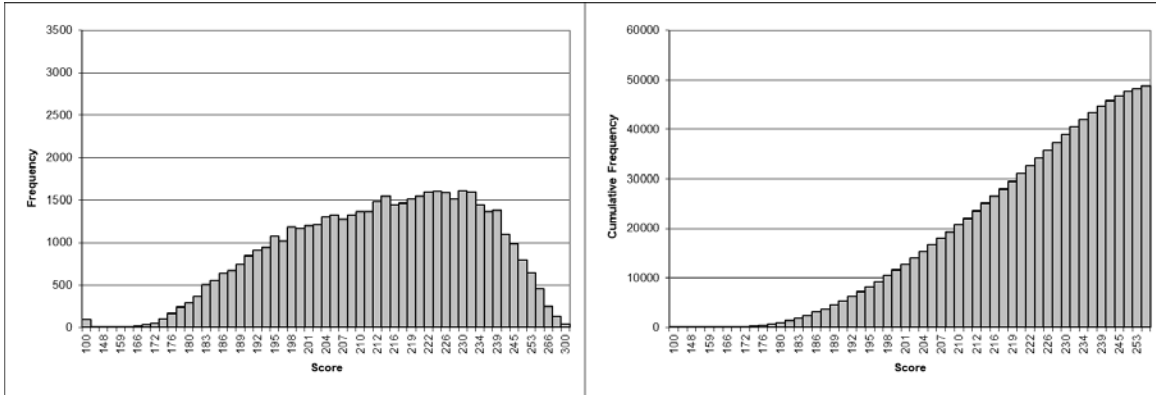
**Figure 13.** Science Grade 4 Score Frequency and Cumulative Frequency Distributions



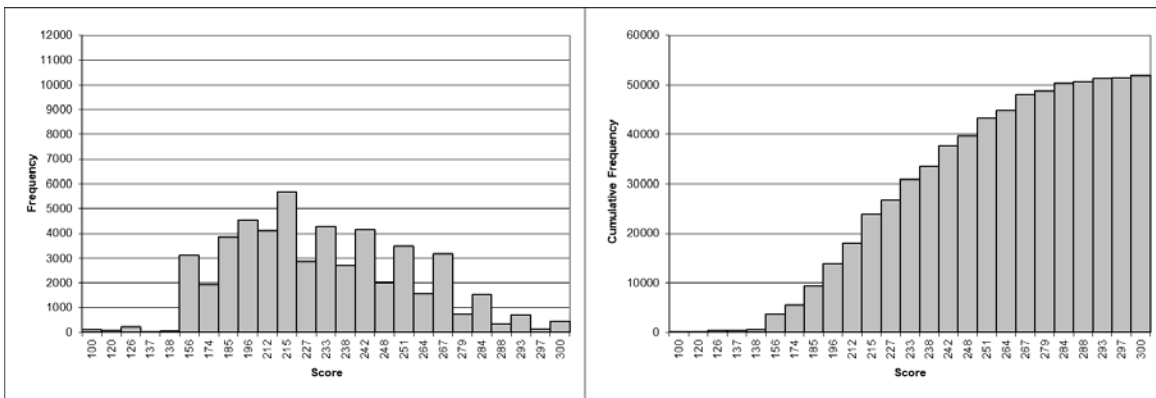
**Figure 14.** Science Grade 7 Score Frequency and Cumulative Frequency Distributions



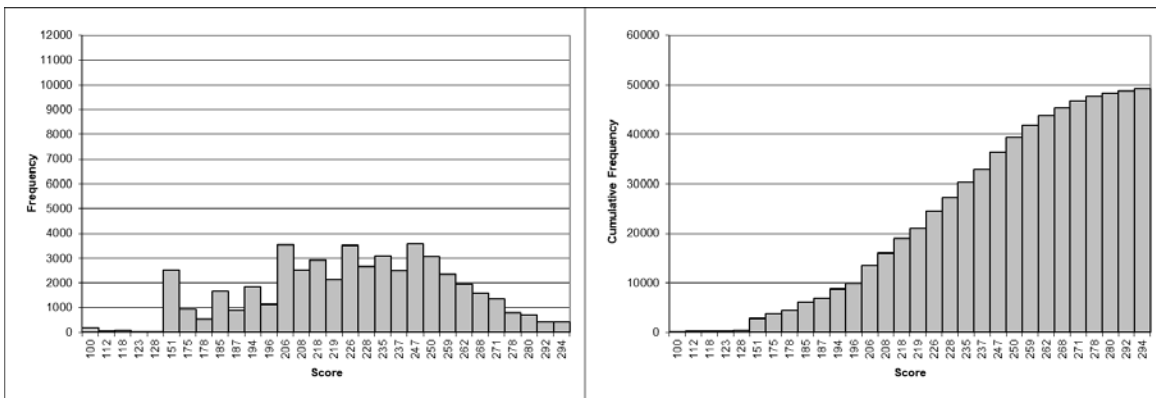
**Figure 15.** Social Studies Grade 5 Score Frequency and Cumulative Frequency Distributions



**Figure 16.** Social Studies Grade 8 Score Frequency and Cumulative Frequency Distributions

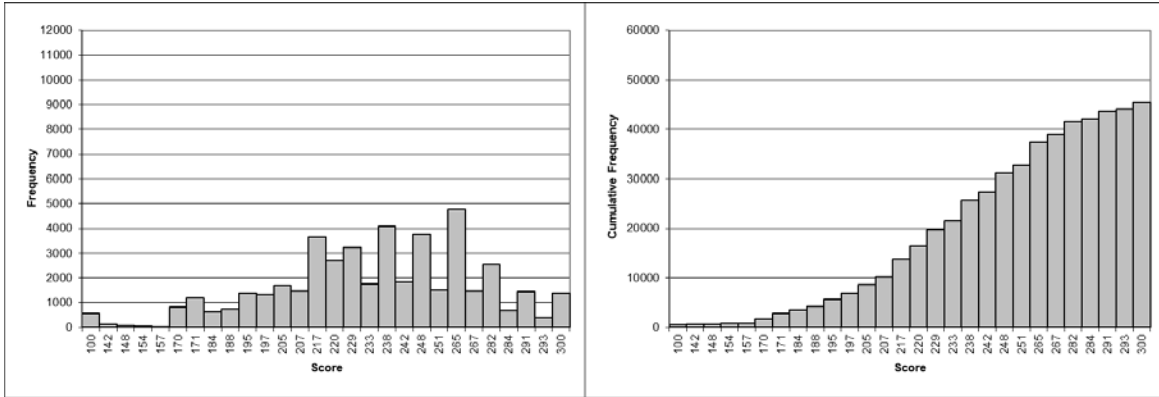


**Figure 17.** On Demand Writing Grade 5 Cumulative Frequency Distributions<sup>4</sup>



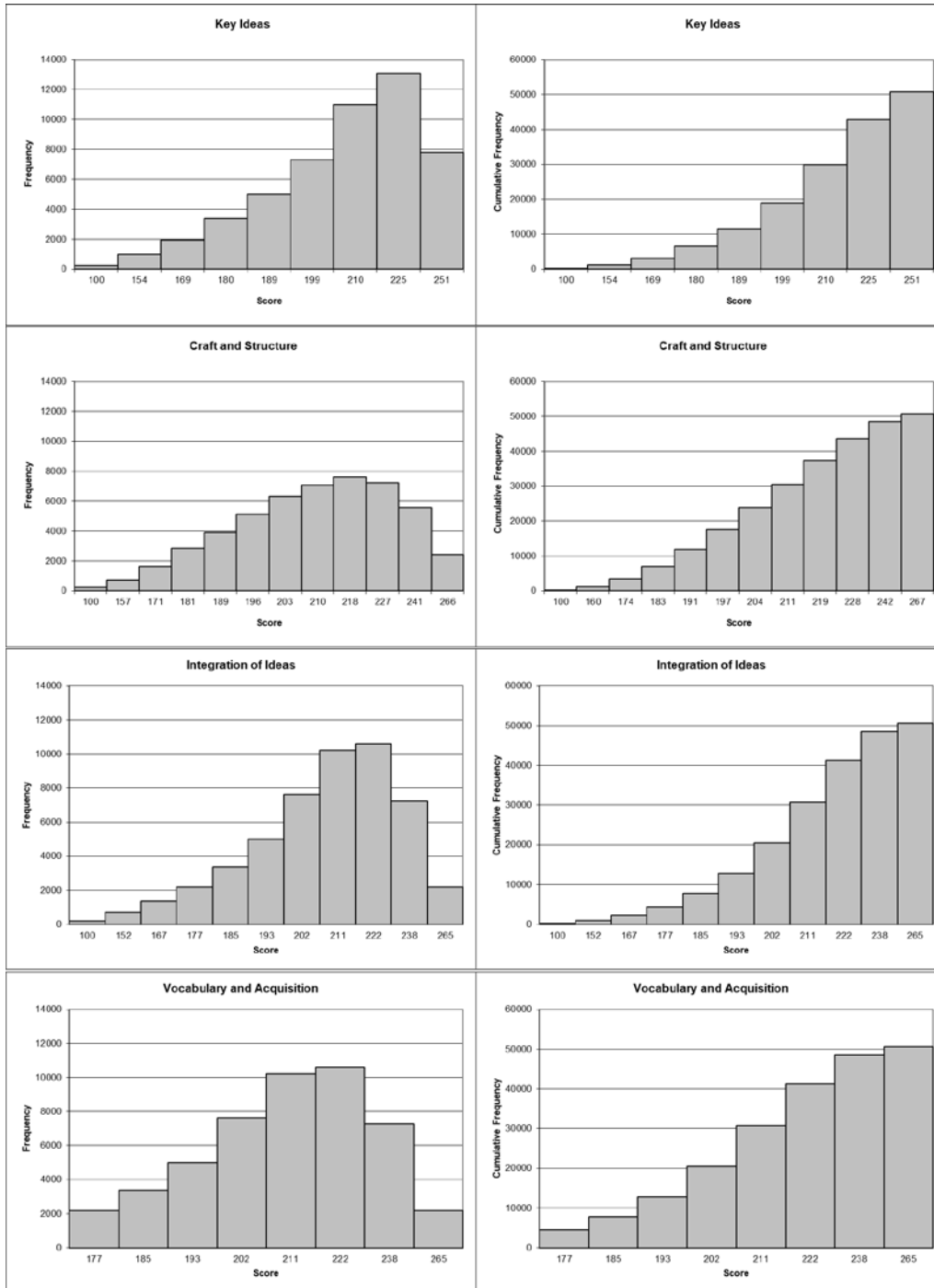
**Figure 18.** On Demand Writing Grade 8 Score Frequency and Cumulative Frequency Distributions

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



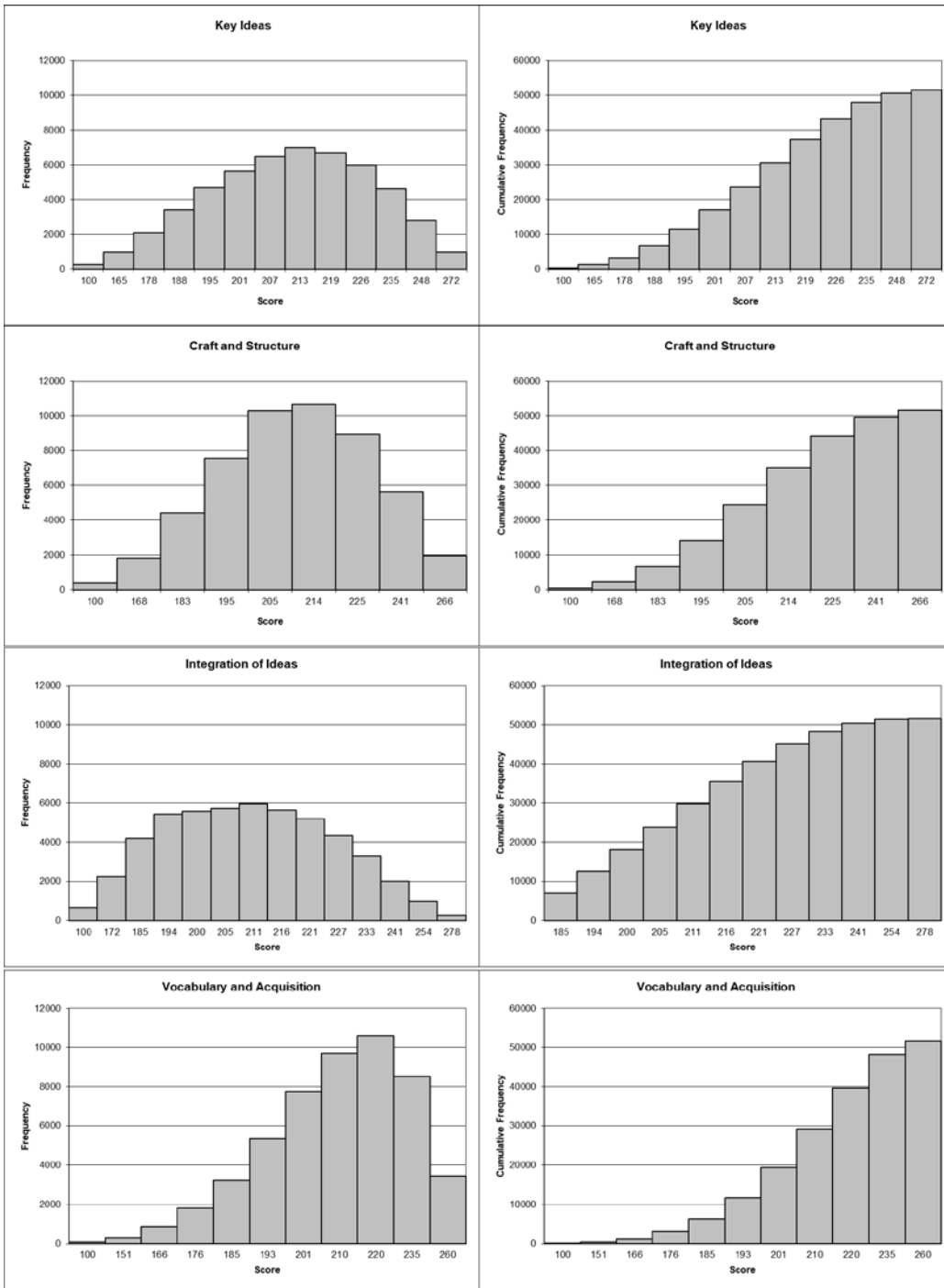
**Figure 19.** On Demand Writing Grade 11 Score Frequency and Cumulative Frequency Distributions

# Appendix J. Score Frequency Distributions— Subdomain<sup>5</sup>

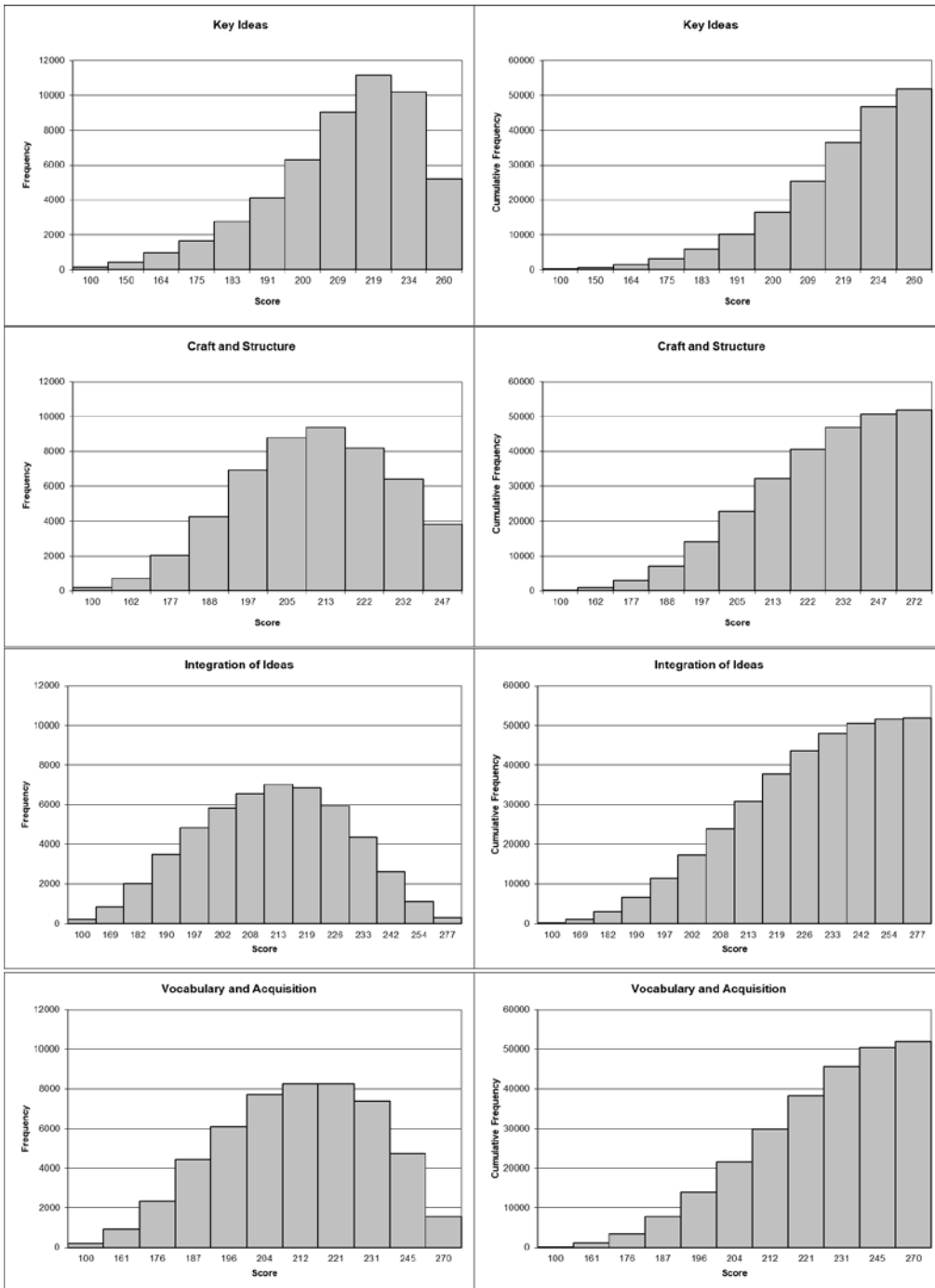


**Figure 1.** Reading Grade 3 Reporting Category Score Frequency and Cumulative Frequency Distributions

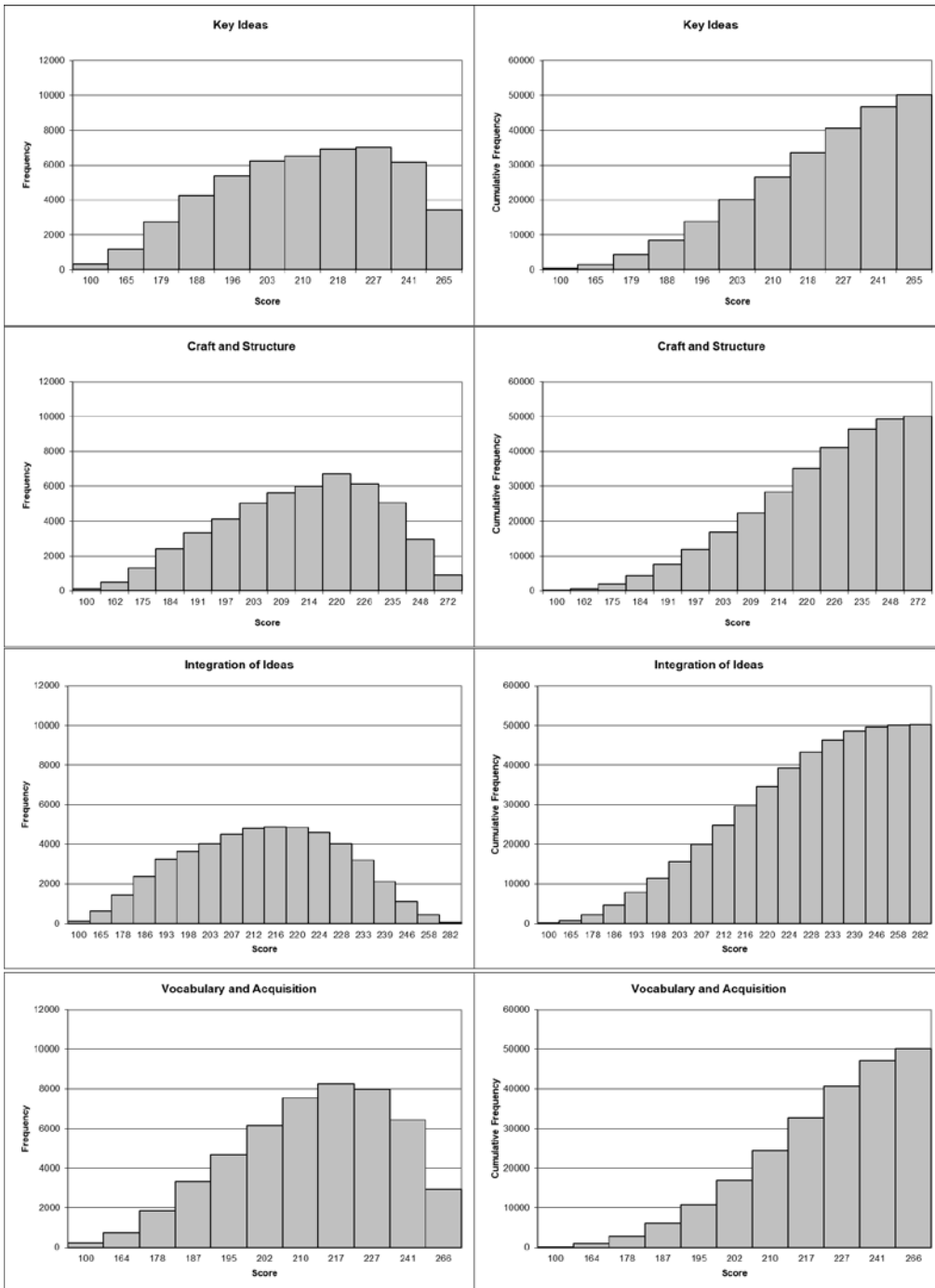
<sup>5</sup> Alternate K-PREP students are not included.



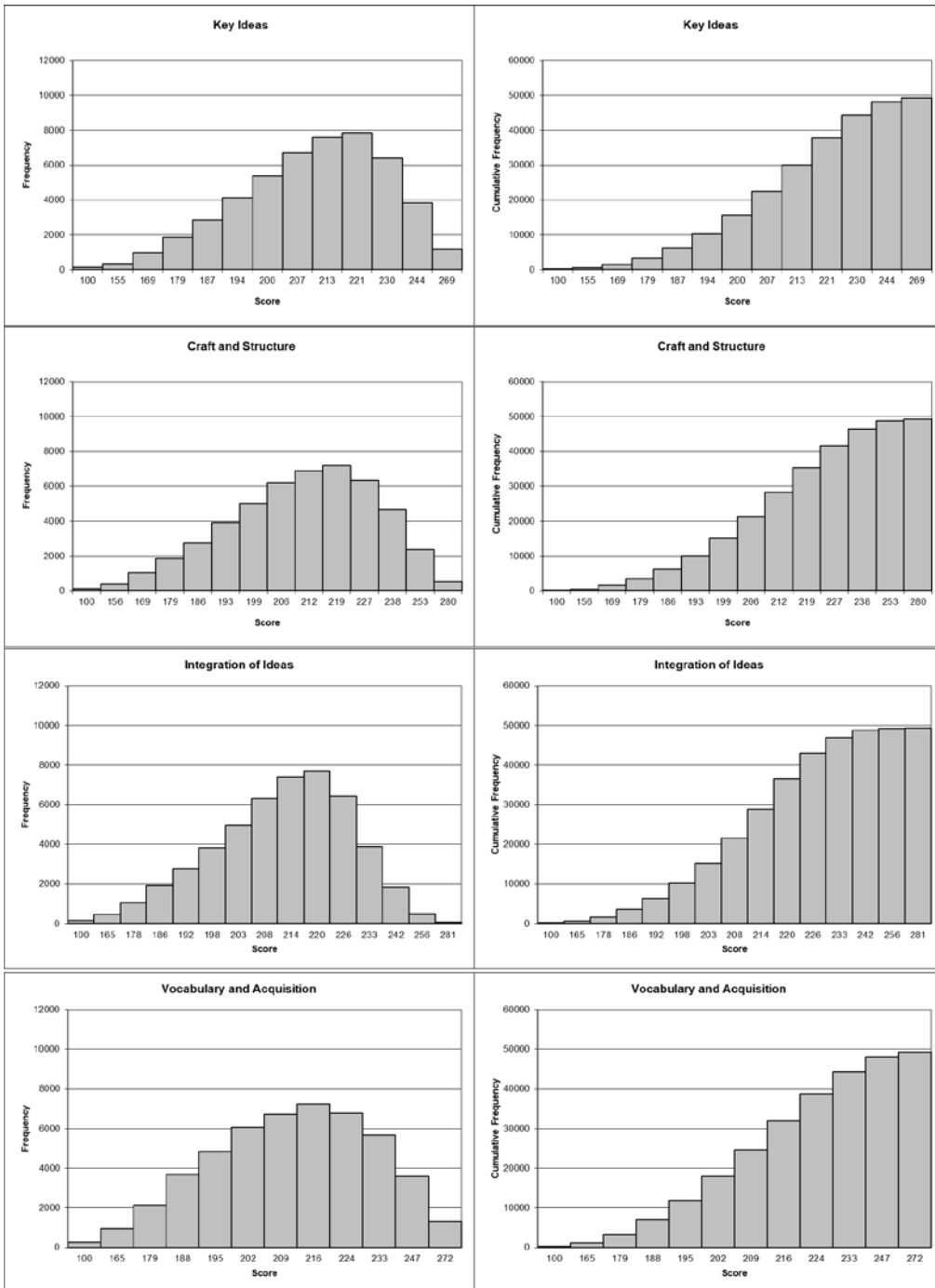
**Figure 2.** Reading Grade 4 Reporting Category Score Frequency and Cumulative Frequency Distributions



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

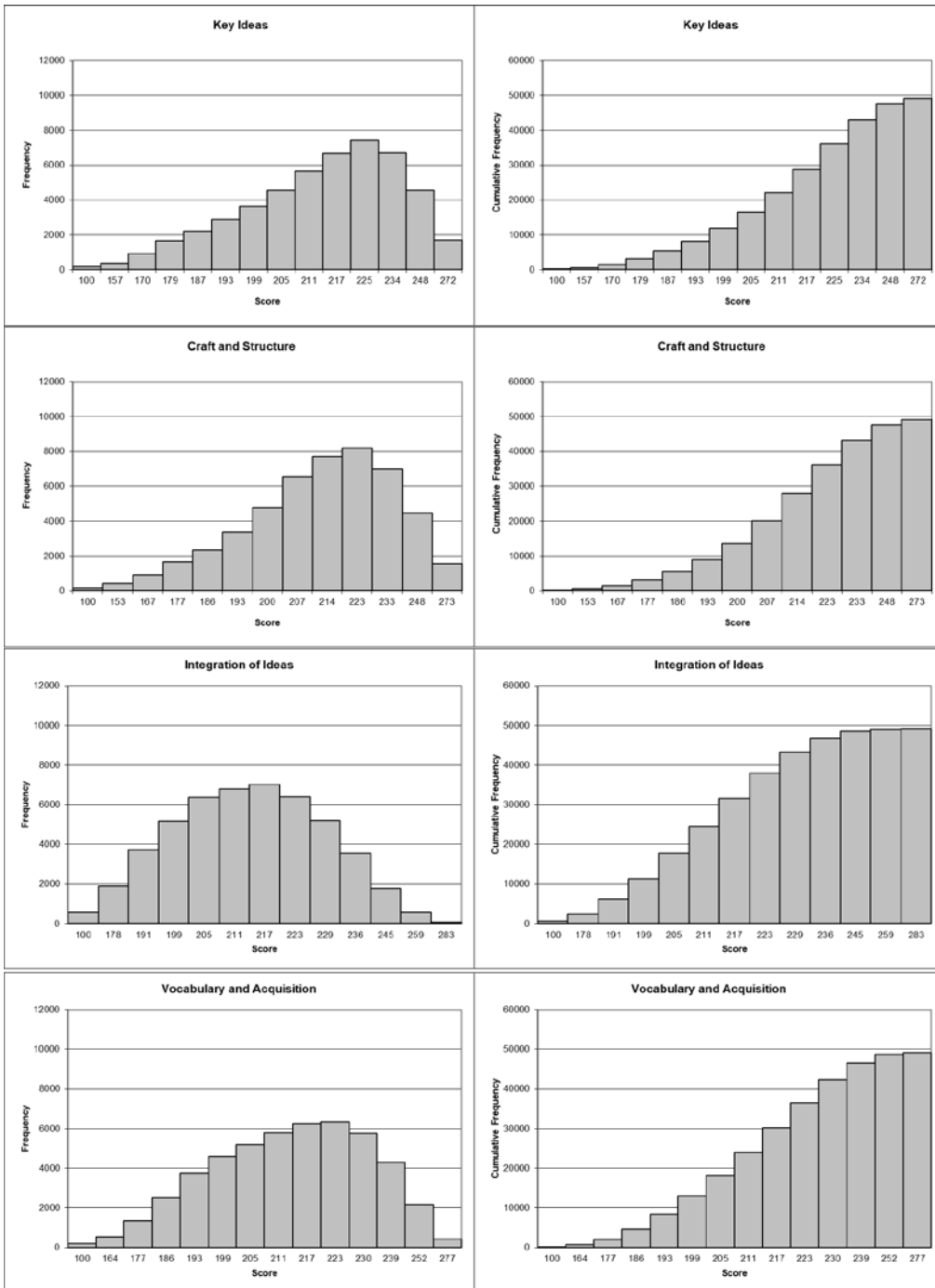


**Figure 4.** Reading Grade 6 Reporting Category Score Frequency and Cumulative Frequency Distributions

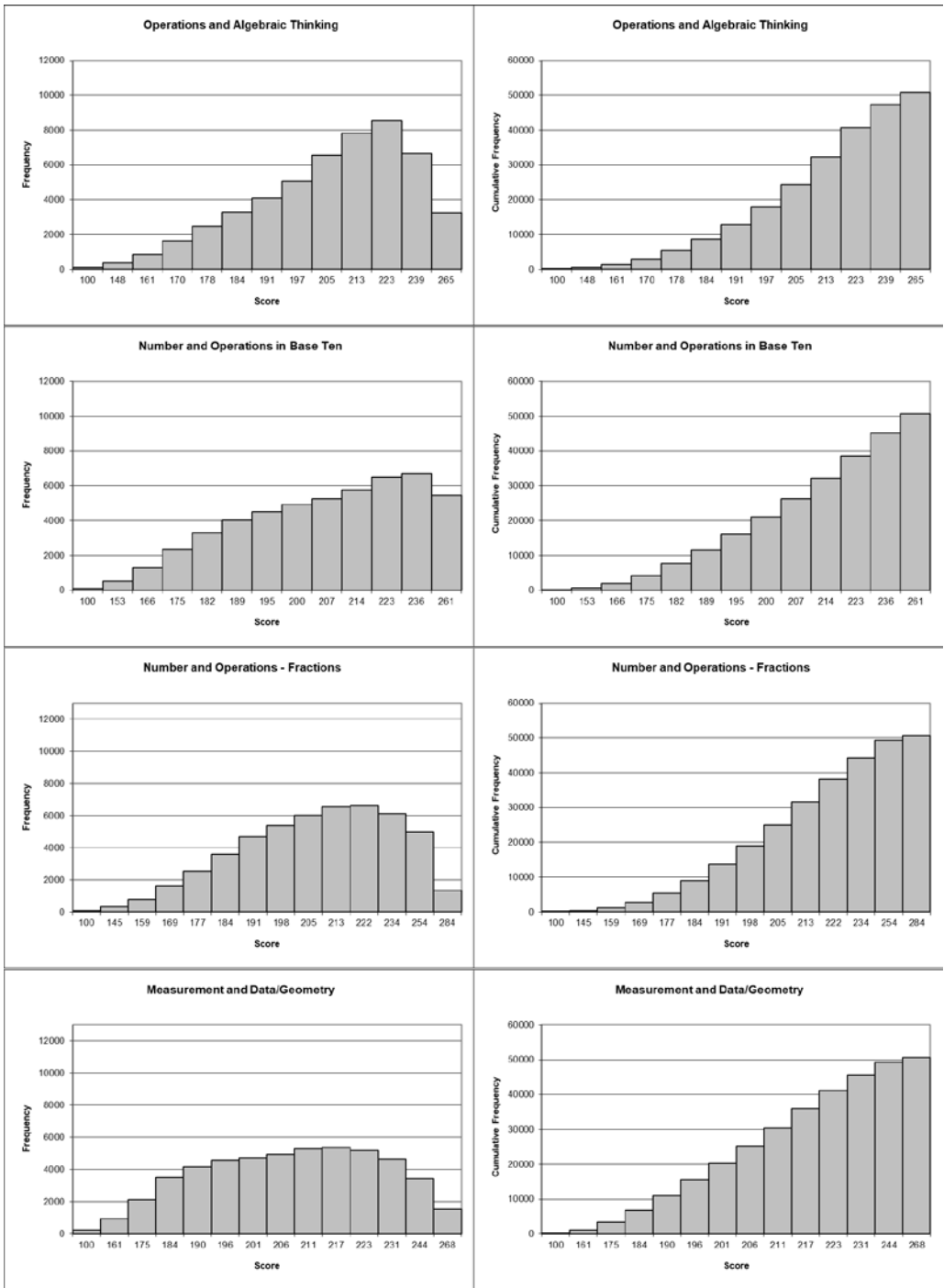


**Figure 5.** Reading Grade 7 Reporting Category Score Frequency and Cumulative Frequency Distributions

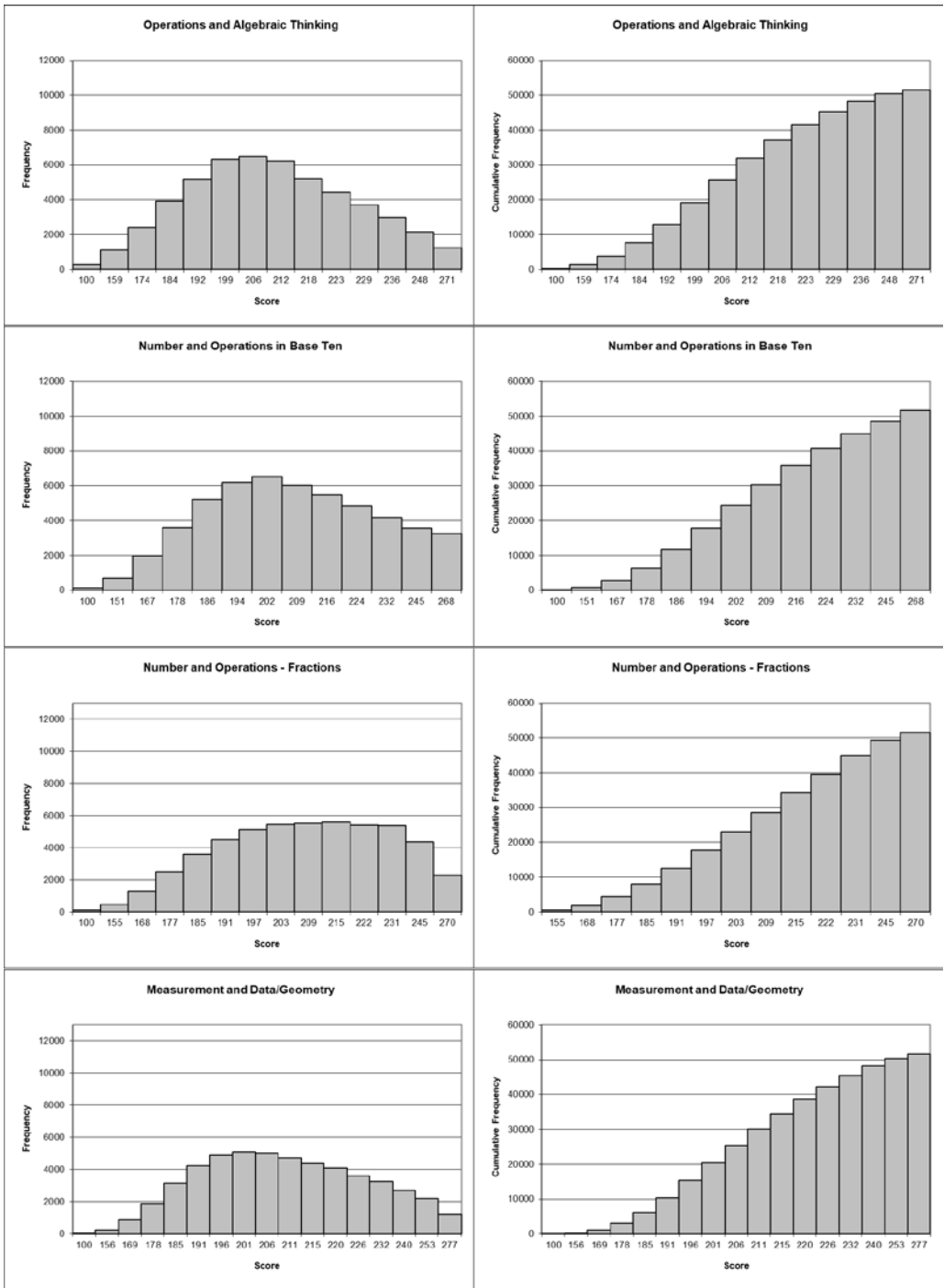




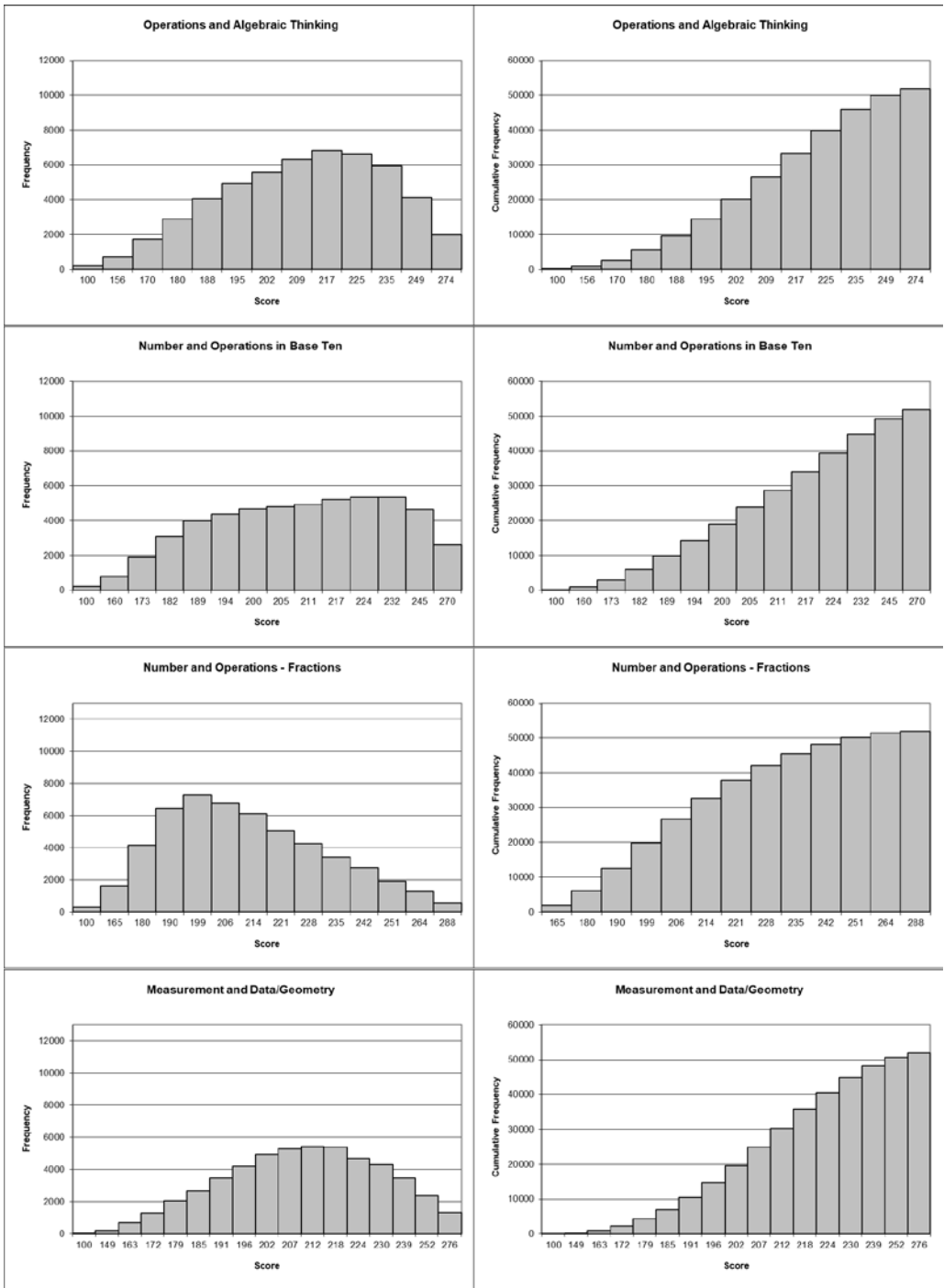
**Figure 6.** Reading Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions



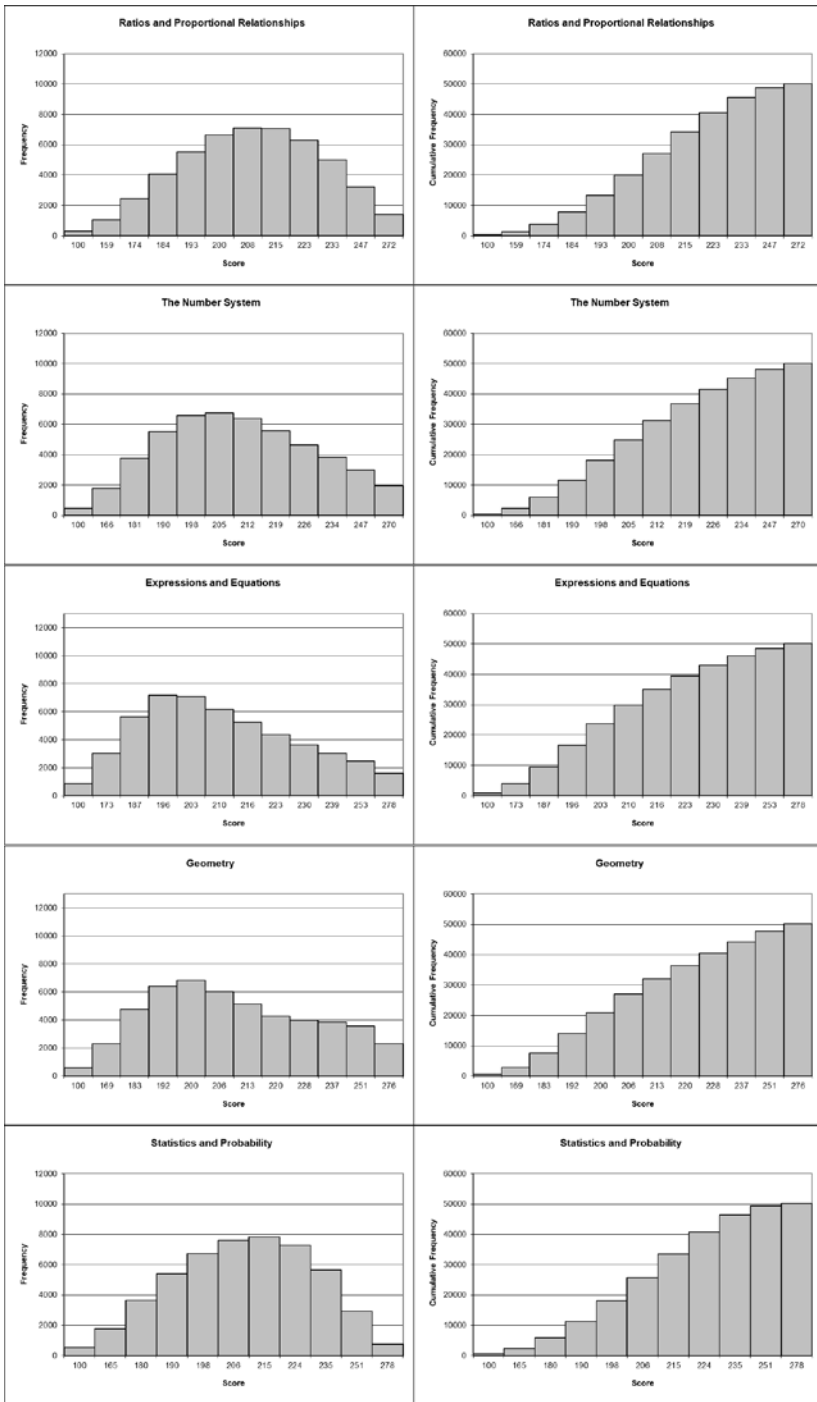
**Figure 7.** Mathematics Grade 3 Reporting Category Score Frequency and Cumulative Frequency Distributions



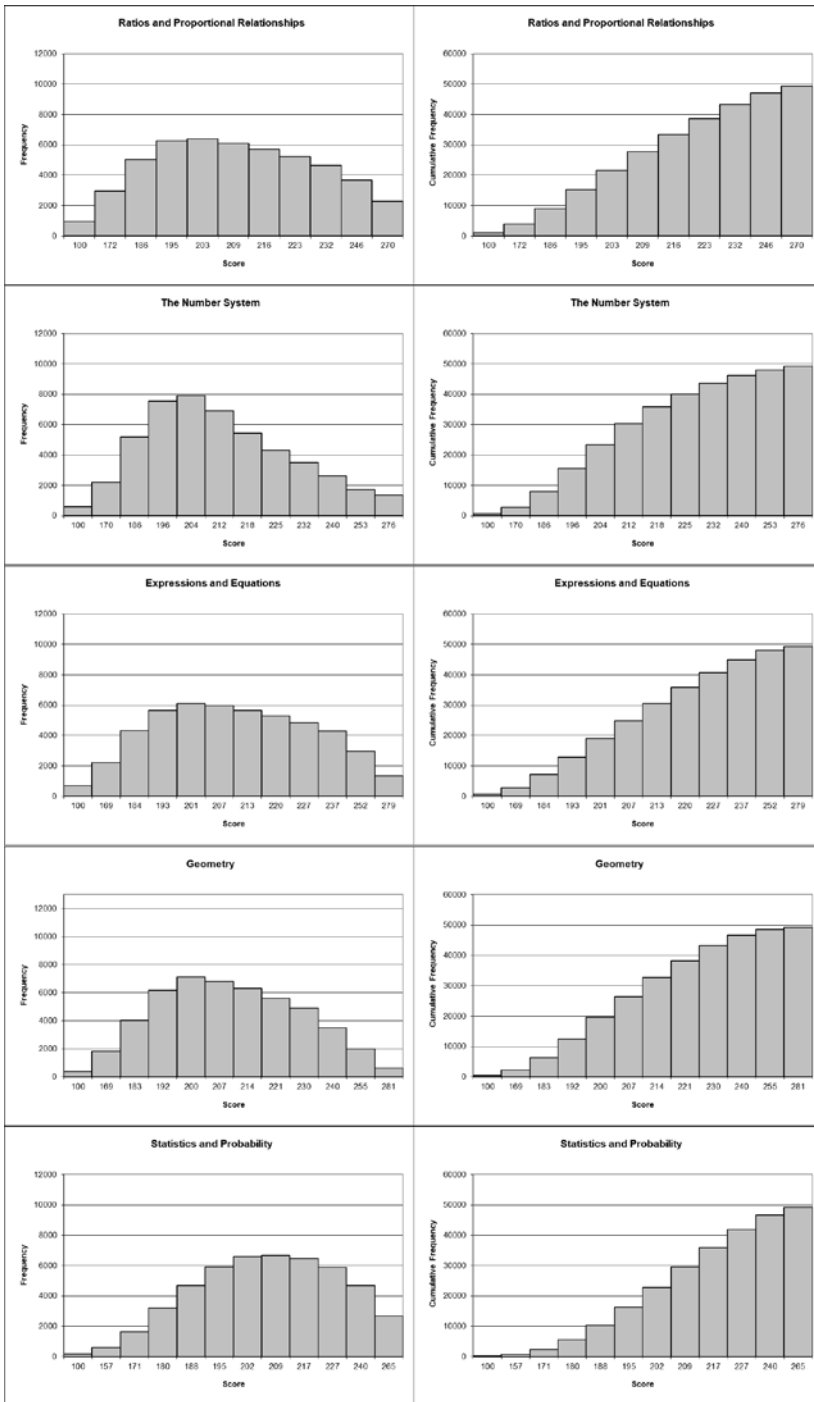
**Figure 8.** Mathematics Grade 4 Reporting Category Score Frequency and Cumulative Frequency Distributions



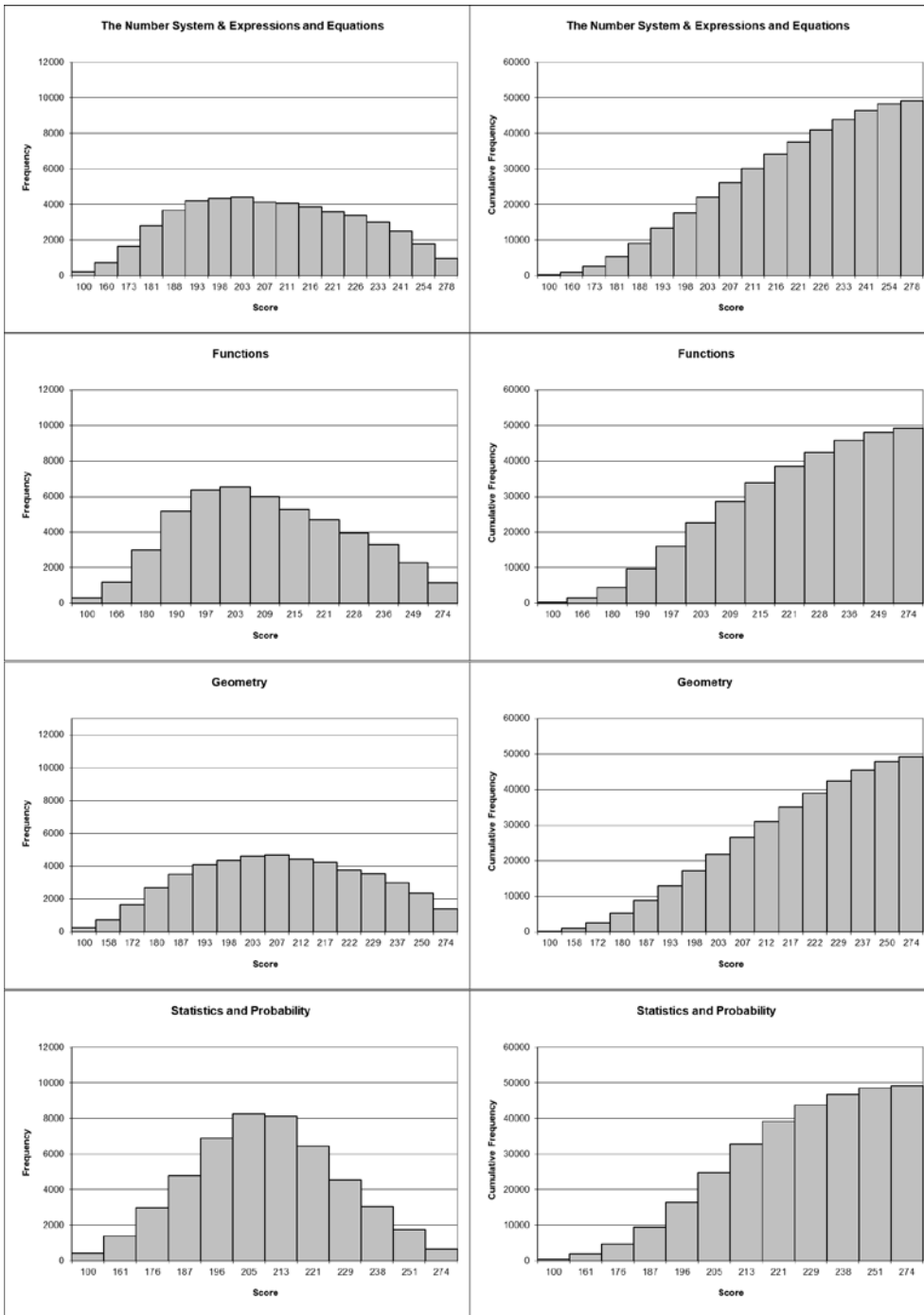
**Figure 9.** Mathematics Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions



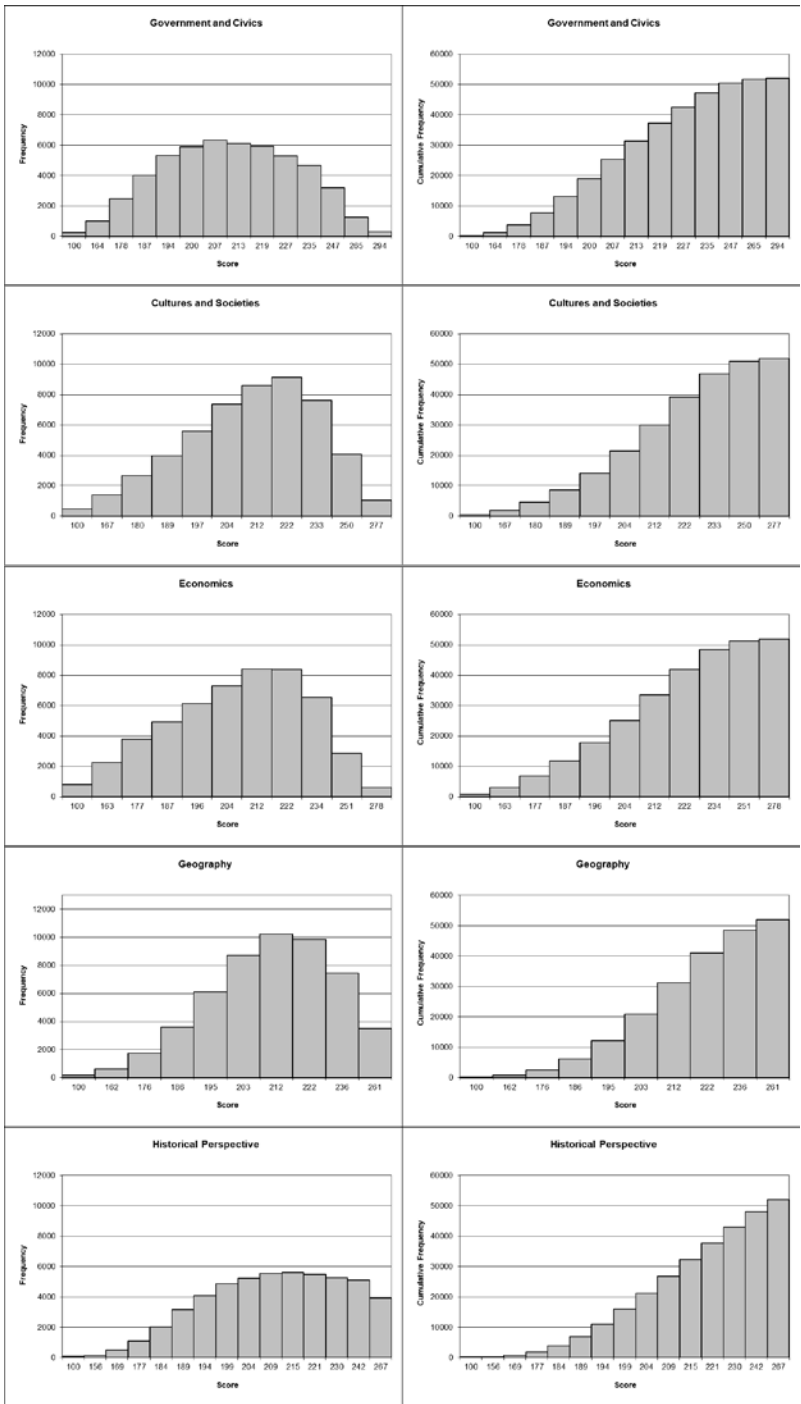
**Figure 10.** Mathematics Grade 6 Reporting Category Score Frequency and Cumulative Frequency Distributions



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

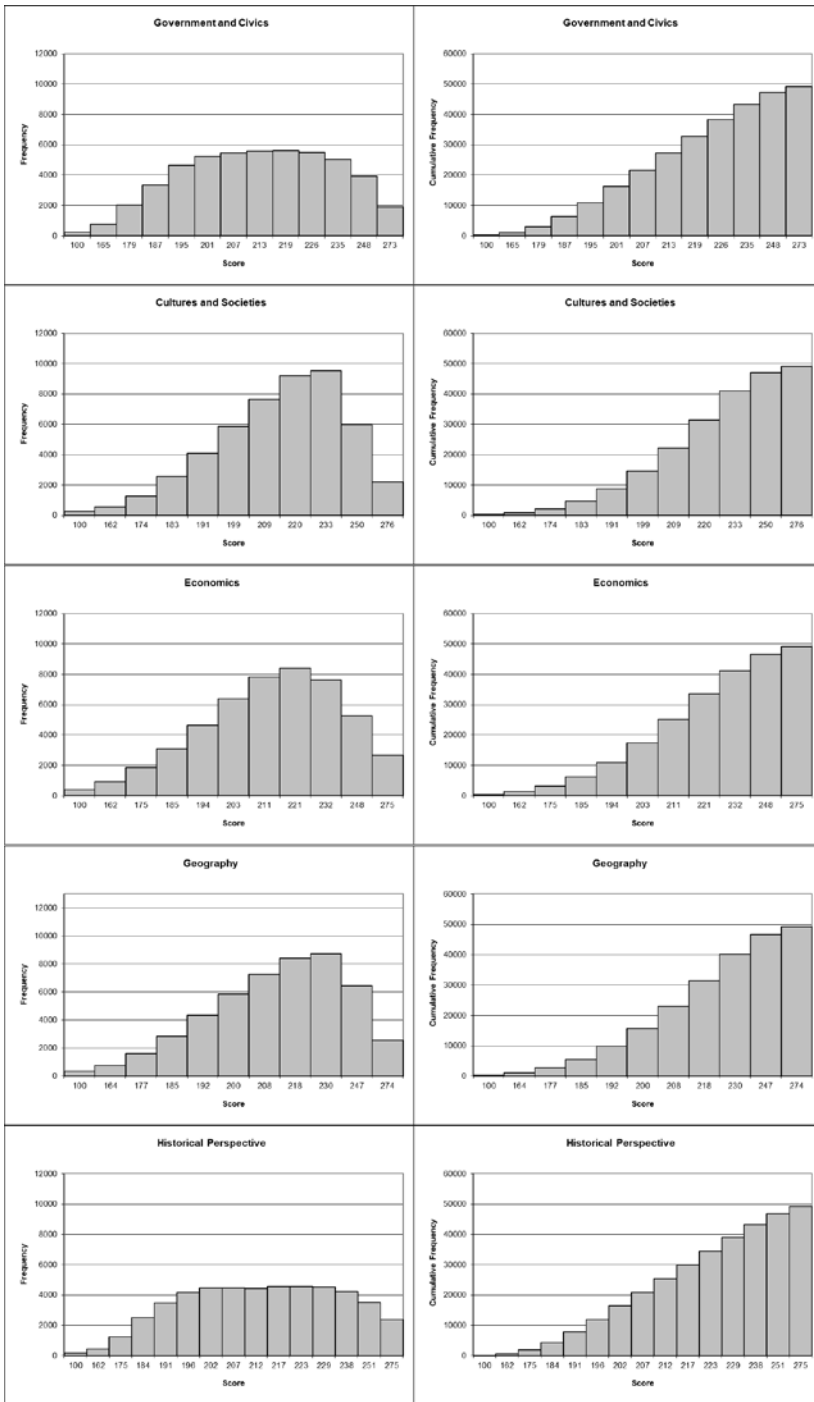


**Figure 12.** Mathematics Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions



**Figure 13.** Social Studies Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions





**Figure 14.** Social Studies Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions

## Appendix K. Scale Score Descriptive Statistics<sup>67</sup>

### Grade 3 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,687	209.89	18.4	198	210	223	287	-0.08
Gender	Female	24,635	211.36	18.1	200	213	223	287	-0.06
	Male	25,616	208.60	18.5	196	208	220	287	-0.07
	Missing	436	203.06	20.4	190	204	217	251	-1.03
Ethnicity	Hispanic	3,784	203.91	18.2	192	204	215	263	-0.68
	Asian	825	215.78	19.7	202	217	229	287	-0.40
	Native Hawaiian/Pacific Islander	63	207.83	18.6	194	208	217	251	0.23
	Black/African American	5,334	199.07	17.9	187	200	210	287	-0.07
	American Indian	51	207.25	17.4	196	208	217	243	-0.25
	White	38,223	212.00	17.8	200	213	223	287	0.01
	Other	2,401	207.81	17.7	196	208	220	287	0.05
	Missing	6	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,435	209.93	18.4	198	210	223	287	-0.08
	Migrant	252	200.73	17.2	189	202	213	263	-0.68
LEP	Non-LEP	47,742	210.55	18.3	198	210	223	287	-0.01
	LEP	2,945	199.13	17.4	190	200	210	263	-1.50
Economic Disadvantage	Free Lunch	29,977	205.61	17.7	194	206	217	287	-0.11
	Reduced-Price Lunch	1,982	212.06	17.6	200	213	226	287	-0.09
	Regular Lunch	18,728	216.50	17.6	206	217	229	287	-0.08
IEP	Non-IEP	43,003	211.24	17.9	200	213	223	287	-0.10
	IEP	7,684	202.31	19.6	189	202	215	287	0.23

### Grade 4 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,653	210.70	15.5	200	210	221	294	-0.16
Gender	Female	25,108	211.58	15.3	201	212	221	270	-0.19
	Male	26,157	209.99	15.7	200	210	221	294	-0.07
	Missing	388	201.82	18.3	192	203	212	251	-2.00
Ethnicity	Hispanic	3,928	205.82	15.9	196	207	215	258	-1.18
	Asian	851	215.39	17.4	205	217	227	258	-1.43
	Native Hawaiian/Pacific Islander	80	208.69	15.4	199	210	216	246	0.14
	Black/African American	5,469	201.80	14.8	192	201	212	270	0.06
	American Indian	57	205.79	15.3	196	205	217	238	0.08
	White	38,956	212.44	15.0	201	212	223	294	-0.03
	Other	2,311	209.30	14.6	200	208	219	294	0.12
	Missing	1	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,431	210.75	15.5	200	210	221	294	-0.13

<sup>6</sup> Alternate K-PREP students are not included.

<sup>7</sup> Scale score statistics are not reported on n-counts less than 10.

	Migrant	222	200.69	18.8	194	201	214	235	-2.73
LEP	Non-LEP	49,085	211.29	15.3	201	212	221	294	-0.03
	LEP	2,568	199.49	15.5	192	200	208	242	-2.17
Economic Disadvantage	Free Lunch	30,233	207.06	14.8	198	207	217	270	-0.11
	Reduced-Price Lunch	2,047	211.79	14.6	201	212	223	258	-0.25
	Regular Lunch	19,373	216.27	15.1	207	217	227	294	-0.34
IEP	Non-IEP	44,137	211.98	15.0	201	212	223	294	-0.19
	IEP	7,516	203.22	16.4	192	201	214	270	0.24

### Grade 5 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,945	212.22	16.1	201	212	222	294	-0.29
Gender	Female	25,388	213.64	15.7	203	214	225	294	-0.27
	Male	26,189	210.96	16.2	201	212	222	294	-0.24
	Missing	368	204.20	20.4	195	205	216	259	-1.95
Ethnicity	Hispanic	3,812	206.80	17.1	197	207	218	271	-1.42
	Asian	870	216.08	19.4	205	218	227	294	-1.23
	Native Hawaiian/Pacific Islander	70	209.36	14.1	201	209	218	252	0.04
	Black/African American	5,455	203.71	15.7	193	205	214	271	-0.22
	American Indian	66	208.91	16.3	195	208	218	247	0.26
	White	39,342	213.93	15.4	203	214	225	294	-0.09
	Other	2,328	210.92	15.7	201	210	221	271	-0.38
	Missing	2	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,725	212.27	16.0	201	212	222	294	-0.27
	Migrant	220	200.80	18.0	191	203	212	235	-2.28
LEP	Non-LEP	50,279	212.81	15.6	203	212	222	294	-0.09
	LEP	1,666	194.37	18.6	187	195	205	242	-2.52
Economic Disadvantage	Free Lunch	29,826	208.36	15.4	199	208	218	271	-0.30
	Reduced-Price Lunch	2,127	213.08	15.5	203	214	225	271	-0.42
	Regular Lunch	19,992	217.89	15.4	208	218	227	294	-0.38
IEP	Non-IEP	45,078	213.64	15.4	203	214	225	294	-0.31
	IEP	6,867	202.87	17.0	191	201	214	271	0.15

### Grade 6 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,156	212.87	15.6	201	213	224	296	-0.35
Gender	Female	24,178	214.53	15.3	204	216	226	296	-0.36
	Male	25,615	211.43	15.7	200	212	222	296	-0.30
	Missing	363	204.13	17.5	194	206	214	254	-1.63
Ethnicity	Hispanic	3,573	208.64	16.5	198	209	220	261	-1.14
	Asian	867	219.20	18.0	209	222	231	273	-1.17
	Native Hawaiian/Pacific Islander	57	207.54	15.3	195	206	220	241	0.17
	Black/African American	5,080	203.87	15.0	192	203	214	261	-0.17
	American Indian	73	213.34	14.7	204	212	224	245	-0.12

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	White	38,466	214.40	15.1	204	216	226	296	-0.26
	Other	2,039	211.38	15.2	200	212	222	261	-0.18
	Missing	1	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,961	212.91	15.6	201	213	224	296	-0.34
	Migrant	195	202.10	15.1	192	201	213	238	-1.43
LEP	Non-LEP	48,979	213.32	15.4	203	214	224	296	-0.25
	LEP	1,177	194.35	15.8	188	195	203	241	-2.98
Economic Disadvantage	Free Lunch	28,170	208.88	15.1	198	209	219	273	-0.30
	Reduced-Price Lunch	2,060	213.22	14.9	203	214	224	261	-0.29
	Regular Lunch	19,926	218.48	14.7	209	220	229	296	-0.53
IEP	Non-IEP	44,269	214.34	15.1	204	214	226	296	-0.40
	IEP	5,887	201.80	15.1	190	200	212	296	0.12

### Grade 7 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,270	211.86	15.6	201	212	223	276	-0.62
Gender	Female	23,926	214.02	15.1	204	215	225	276	-0.55
	Male	25,015	209.90	15.6	200	211	221	264	-0.66
	Missing	329	202.49	18.3	192	204	214	246	-2.05
Ethnicity	Hispanic	3,240	207.04	16.2	198	207	217	264	-1.57
	Asian	880	216.99	16.8	207	219	229	264	-1.36
	Native Hawaiian/Pacific Islander	61	208.75	15.0	198	207	219	239	0.03
	Black/African American	5,165	202.94	15.9	192	203	214	256	-0.55
	American Indian	63	211.16	15.7	200	212	223	246	-0.25
	White	37,998	213.46	14.9	204	214	225	276	-0.51
	Other	1,855	210.09	15.2	200	211	221	256	-0.65
	Missing	8	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,103	211.90	15.5	201	212	223	276	-0.61
	Migrant	167	199.83	18.9	188	201	211	236	-2.50
LEP	Non-LEP	48,121	212.32	15.2	203	214	223	276	-0.51
	LEP	1,149	192.45	17.0	187	193	201	242	-2.84
Economic Disadvantage	Free Lunch	26,972	207.53	15.2	198	209	217	276	-0.71
	Reduced-Price Lunch	2,021	213.55	14.7	204	214	223	264	-0.35
	Regular Lunch	20,277	217.44	14.2	209	219	227	276	-0.63
IEP	Non-IEP	43,916	213.41	14.9	204	214	223	276	-0.69
	IEP	5,354	199.10	15.3	188	198	209	251	-0.11

## Grade 8 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,145	213.99	16.2	204	215	225	300	-0.65
Gender	Female	23,933	216.90	15.5	207	218	227	300	-0.63
	Male	24,856	211.33	16.3	201	212	223	277	-0.60
	Missing	356	202.82	20.7	193	205	215	258	-1.97
Ethnicity	Hispanic	3,006	209.26	16.5	199	210	220	265	-1.22
	Asian	885	219.84	18.2	209	221	233	265	-0.87
	Native Hawaiian/Pacific Islander	56	212.80	16.8	202	215	222	258	-0.03
	Black/African American	5,056	204.20	16.4	193	204	215	258	-0.85
	American Indian	66	211.67	19.5	205	214	220	248	-2.86
	White	38,474	215.57	15.6	205	216	227	300	-0.55
	Other	1,599	212.65	16.5	202	213	223	265	-0.79
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,967	214.02	16.2	204	215	225	300	-0.64
	Migrant	178	203.34	17.3	194	204	216	244	-1.14
LEP	Non-LEP	48,042	214.45	15.9	204	215	225	300	-0.60
	LEP	1,103	193.92	15.8	187	194	202	236	-2.45
Economic Disadvantage	Free Lunch	26,216	209.56	15.8	199	210	220	265	-0.70
	Reduced-Price Lunch	2,026	214.56	14.8	204	215	225	277	-0.09
	Regular Lunch	20,903	219.48	15.1	210	220	229	300	-0.77
IEP	Non-IEP	44,100	215.61	15.6	205	216	227	300	-0.76
	IEP	5,045	199.77	14.7	189	198	209	252	0.04

## Grade 3 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,687	209.66	20.5	195	209	223	296	0.41
Gender	Female	24,635	209.35	19.7	195	209	223	296	0.40
	Male	25,616	210.11	21.1	195	209	223	296	0.41
	Missing	436	200.56	19.7	187	199	214	271	0.05
Ethnicity	Hispanic	3,784	203.85	19.2	190	203	216	296	0.22
	Asian	825	223.45	24.9	206	223	238	296	0.24
	Native Hawaiian/Pacific Islander	63	207.00	22.3	192	206	214	296	1.16
	Black/African American	5,334	198.97	18.4	185	198	211	296	0.44
	American Indian	51	210.98	21.5	195	211	228	258	0.40
	White	38,223	211.58	20.1	198	211	225	296	0.41
	Other	2,401	207.28	19.3	193	206	221	296	0.41
	Missing	6	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,435	209.71	20.5	195	209	223	296	0.41
	Migrant	252	200.48	18.8	187	199	214	271	0.26
LEP	Non-LEP	47,742	210.25	20.4	196	209	223	296	0.43
	LEP	2,945	200.06	18.8	187	199	211	296	0.00
Economic Disadvantage	Free Lunch	29,977	204.66	18.8	192	204	216	296	0.33
	Reduced-Price Lunch	1,982	211.99	19.7	198	211	223	296	0.45

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Regular Lunch	18,728	217.42	20.7	203	216	231	296	0.39
IEP	Non-IEP	43,003	211.45	20.0	198	211	223	296	0.44
	IEP	7,684	199.65	20.4	185	196	213	296	0.58

### Grade 4 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,653	209.77	18.7	197	209	222	295	0.45
Gender	Female	25,108	209.55	18.0	197	207	221	295	0.50
	Male	26,157	210.14	19.4	195	209	222	295	0.43
	Missing	388	198.73	19.0	189	198	210	295	-0.45
Ethnicity	Hispanic	3,928	205.33	17.0	193	204	216	295	0.19
	Asian	851	223.59	22.9	207	222	238	295	0.42
	Native Hawaiian/Pacific Islander	80	207.09	20.8	190	207	219	272	0.71
	Black/African American	5,469	198.58	16.0	187	197	209	272	0.43
	American Indian	57	204.30	14.4	193	203	212	235	0.27
	White	38,956	211.65	18.5	198	210	224	295	0.45
	Other	2,311	207.23	17.6	195	206	218	272	0.46
	Missing	1	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,431	209.81	18.7	197	209	222	295	0.46
	Migrant	222	201.55	17.9	192	201	213	248	-1.04
LEP	Non-LEP	49,085	210.29	18.8	197	209	222	295	0.46
	LEP	2,568	199.94	15.3	190	200	209	295	-0.04
Economic Disadvantage	Free Lunch	30,233	205.20	17.0	193	204	216	295	0.44
	Reduced-Price Lunch	2,047	210.45	17.4	198	210	222	295	0.31
	Regular Lunch	19,373	216.84	19.3	203	216	229	295	0.34
IEP	Non-IEP	44,137	211.26	18.4	198	210	222	295	0.45
	IEP	7,516	201.03	18.3	189	198	212	295	0.74

### Grade 5 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,945	211.62	19.8	198	210	225	300	0.37
Gender	Female	25,388	211.65	19.0	198	210	223	300	0.38
	Male	26,189	211.73	20.5	196	210	225	300	0.37
	Missing	368	201.88	20.4	189	199	215	278	-0.05
Ethnicity	Hispanic	3,812	206.87	18.6	194	205	218	278	-0.08
	Asian	870	224.35	23.4	208	225	240	300	0.21
	Native Hawaiian/Pacific Islander	70	208.07	19.7	193	206	220	259	0.51
	Black/African American	5,455	201.04	16.6	189	199	212	278	0.36
	American Indian	66	211.64	23.4	194	209	227	266	-0.08
	White	39,342	213.43	19.6	199	213	227	300	0.38
	Other	2,328	208.99	19.3	196	207	221	300	0.37
	Missing	2	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,725	211.67	19.8	198	210	225	300	0.37

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Migrant	220	200.51	18.5	189	199	213	254	-0.65
LEP	Non-LEP	50,279	212.15	19.6	198	212	225	300	0.41
	LEP	1,666	195.71	17.4	186	194	205	259	-0.81
Economic Disadvantage	Free Lunch	29,826	206.34	17.8	193	205	218	300	0.35
	Reduced-Price Lunch	2,127	213.44	19.1	201	212	225	300	0.38
	Regular Lunch	19,992	219.31	20.0	205	218	233	300	0.24
IEP	Non-IEP	45,078	213.40	19.4	199	212	227	300	0.37
	IEP	6,867	199.94	18.3	188	196	212	300	0.68

### Grade 6 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,156	210.34	18.5	197	209	222	300	0.43
Gender	Female	24,178	211.39	18.2	199	210	223	300	0.37
	Male	25,615	209.50	18.6	195	207	222	300	0.51
	Missing	363	199.36	16.9	191	199	207	254	-0.83
Ethnicity	Hispanic	3,573	205.42	16.9	194	203	216	279	0.08
	Asian	867	223.80	23.2	207	223	238	300	0.19
	Native Hawaiian/Pacific Islander	57	206.21	15.6	194	203	217	240	0.49
	Black/African American	5,080	199.71	15.6	189	197	209	279	0.22
	American Indian	73	211.75	17.5	199	209	222	267	0.78
	White	38,466	212.05	18.2	199	210	223	300	0.44
	Other	2,039	207.57	17.5	195	206	219	300	0.43
	Missing	1	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,961	210.38	18.5	197	209	222	300	0.43
	Migrant	195	199.98	13.6	189	200	209	236	0.30
LEP	Non-LEP	48,979	210.74	18.4	197	209	222	300	0.45
	LEP	1,177	193.52	14.2	185	192	200	259	-0.50
Economic Disadvantage	Free Lunch	28,170	205.36	16.5	194	203	216	300	0.36
	Reduced-Price Lunch	2,060	210.52	17.2	199	209	222	279	0.31
	Regular Lunch	19,926	217.37	18.9	204	216	230	300	0.36
IEP	Non-IEP	44,269	212.02	18.1	199	210	223	300	0.45
	IEP	5,887	197.71	16.1	187	194	204	279	0.56

### Grade 7 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,270	210.42	18.2	198	209	221	300	0.30
Gender	Female	23,926	211.34	17.7	199	210	223	300	0.34
	Male	25,015	209.70	18.5	196	208	221	300	0.29
	Missing	329	198.57	17.3	189	198	209	243	-1.37
Ethnicity	Hispanic	3,240	205.28	16.6	194	203	214	279	0.21
	Asian	880	223.48	23.4	208	221	238	300	0.05
	Native Hawaiian/Pacific Islander	61	205.52	17.0	193	202	217	259	0.67
	Black/African American	5,165	199.83	15.5	189	198	209	279	0.05

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	American Indian	63	209.51	17.4	198	208	226	240	0.12
	White	37,998	212.14	17.9	199	210	223	300	0.27
	Other	1,855	207.79	16.9	196	205	219	300	0.50
	Missing	8	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,103	210.46	18.2	198	209	221	300	0.29
	Migrant	167	200.81	14.8	193	199	209	279	0.90
LEP	Non-LEP	48,121	210.83	18.1	198	209	221	300	0.31
	LEP	1,149	193.43	14.0	185	193	199	243	-1.08
Economic Disadvantage	Free Lunch	26,972	205.07	16.1	194	203	214	279	0.11
	Reduced-Price Lunch	2,021	212.23	17.5	199	210	223	300	0.62
	Regular Lunch	20,277	217.37	18.4	205	216	230	300	0.25
IEP	Non-IEP	43,916	211.91	17.9	199	210	223	300	0.29
	IEP	5,354	198.19	15.8	189	196	205	279	0.48

### Grade 8 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,145	209.25	18.2	196	207	220	298	0.24
Gender	Female	23,933	210.53	17.5	199	209	221	298	0.27
	Male	24,856	208.21	18.8	195	206	220	298	0.26
	Missing	356	196.24	16.8	186	195	207	251	-0.95
Ethnicity	Hispanic	3,006	203.98	16.4	193	203	214	275	-0.26
	Asian	885	223.01	22.9	207	221	236	298	0.28
	Native Hawaiian/Pacific Islander	56	210.84	19.4	198	210	218	298	1.94
	Black/African American	5,056	198.80	15.8	188	198	209	275	-0.29
	American Indian	66	204.05	20.2	195	200	216	251	-1.72
	White	38,474	210.82	17.9	199	210	221	298	0.27
	Other	1,599	206.94	17.6	196	206	217	275	0.06
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,967	209.29	18.2	196	207	220	298	0.24
	Migrant	178	197.85	16.7	188	199	206	238	-1.02
LEP	Non-LEP	48,042	209.61	18.1	198	209	221	298	0.26
	LEP	1,103	193.52	15.2	186	193	200	263	-1.05
Economic Disadvantage	Free Lunch	26,216	203.87	16.4	193	203	214	298	0.06
	Reduced-Price Lunch	2,026	209.87	16.9	198	209	220	298	0.64
	Regular Lunch	20,903	215.93	18.4	203	216	228	298	0.21
IEP	Non-IEP	44,100	210.85	17.9	199	210	221	298	0.22
	IEP	5,045	195.26	14.9	186	193	203	275	0.49

### Grade 4 Science

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,653	202.75	12.7	194	203	212	265	-0.40
Gender	Female	25,108	202.92	12.3	195	203	212	265	-0.31
	Male	26,157	202.69	12.9	194	203	212	257	-0.43



	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Missing	388	195.86	15.2	189	196	205	238	-2.07
Ethnicity	Hispanic	3,928	199.17	12.5	192	199	207	238	-0.82
	Asian	851	207.80	13.3	199	209	216	257	-0.51
	Native Hawaiian/Pacific Islander	80	200.91	12.4	192	200	209	233	0.37
	Black/African American	5,469	194.58	12.0	187	194	202	244	-0.27
	American Indian	57	199.58	10.7	192	201	207	222	-0.16
	White	38,956	204.25	12.2	196	205	213	265	-0.41
	Other	2,311	201.23	12.3	194	201	210	241	-0.40
	Missing	1	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,431	202.77	12.7	194	203	212	265	-0.40
	Migrant	222	196.99	13.0	191	198	204	226	-1.23
LEP	Non-LEP	49,085	203.15	12.6	195	203	212	265	-0.38
	LEP	2,568	195.07	11.6	189	195	202	231	-1.25
Economic Disadvantage	Free Lunch	30,233	199.81	12.2	192	200	208	265	-0.41
	Reduced-Price Lunch	2,047	203.64	11.7	196	204	212	238	-0.28
	Regular Lunch	19,373	207.24	12.1	200	208	215	257	-0.55
IEP	Non-IEP	44,137	203.54	12.3	195	204	212	265	-0.43
	IEP	7,516	198.09	13.6	189	197	207	244	-0.15

### Grade 7 Science

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,270	201.01	13.2	192	200	210	261	-0.62
Gender	Female	23,926	201.55	12.7	194	200	210	261	-0.41
	Male	25,015	200.60	13.7	192	200	210	255	-0.73
	Missing	329	193.08	15.0	188	194	200	228	-2.83
Ethnicity	Hispanic	3,240	197.76	13.0	190	197	205	244	-1.03
	Asian	880	208.71	14.9	199	208	219	255	-0.53
	Native Hawaiian/Pacific Islander	61	198.57	13.8	188	195	208	230	-0.04
	Black/African American	5,165	193.90	13.2	188	194	202	255	-1.60
	American Indian	63	201.54	11.0	192	202	210	220	-0.08
	White	37,998	202.18	12.8	194	202	210	261	-0.48
	Other	1,855	199.12	12.9	192	199	207	241	-0.87
	Missing	8	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,103	201.04	13.2	192	200	210	261	-0.63
	Migrant	167	193.77	11.5	188	194	202	225	-0.62
LEP	Non-LEP	48,121	201.29	13.1	192	200	210	261	-0.59
	LEP	1,149	189.16	12.4	185	190	195	226	-2.78
Economic Disadvantage	Free Lunch	26,972	197.45	12.5	190	197	205	261	-1.09
	Reduced-Price Lunch	2,021	202.39	12.3	194	202	211	247	-0.16
	Regular Lunch	20,277	205.61	12.8	197	205	214	255	-0.37
IEP	Non-IEP	43,916	202.03	13.0	194	202	210	261	-0.60
	IEP	5,354	192.68	12.3	185	192	199	235	-1.32

## Grade 5 Social Studies

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,945	211.50	17.2	199	210	223	300	0.08
Gender	Female	25,388	211.01	16.8	199	210	221	300	0.20
	Male	26,189	212.12	17.5	200	211	225	300	0.01
	Missing	368	200.70	19.6	191	200	213	255	-1.92
Ethnicity	Hispanic	3,812	205.70	17.5	195	205	216	283	-0.95
	Asian	870	217.25	21.5	203	218	231	300	-0.93
	Native Hawaiian/Pacific Islander	70	209.70	15.9	195	210	219	250	0.34
	Black/African American	5,455	201.65	15.7	191	200	211	261	0.13
	American Indian	66	210.74	18.2	200	210	219	261	0.21
	White	39,342	213.43	16.7	202	213	225	300	0.23
	Other	2,328	209.30	16.7	198	209	219	300	0.24
	Missing	2	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,725	211.54	17.2	199	210	223	300	0.09
	Migrant	220	200.75	19.0	191	199	213	255	-1.73
LEP	Non-LEP	50,279	212.09	16.8	200	211	223	300	0.25
	LEP	1,666	193.56	18.3	186	194	203	246	-2.52
Economic Disadvantage	Free Lunch	29,826	207.13	16.0	196	206	218	283	0.08
	Reduced-Price Lunch	2,127	212.48	16.8	202	211	223	283	-0.10
	Regular Lunch	19,992	217.90	16.9	206	218	229	300	-0.03
IEP	Non-IEP	45,078	213.09	16.7	202	213	225	300	0.05
	IEP	6,867	201.00	16.6	189	199	211	269	0.50

## Grade 8 Social Studies

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,145	214.87	19.5	201	214	228	300	-0.10
Gender	Female	23,933	215.37	18.7	202	214	228	300	0.01
	Male	24,856	214.60	20.1	200	214	228	300	-0.14
	Missing	356	199.70	21.0	189	198	212	249	-1.51
Ethnicity	Hispanic	3,006	208.41	18.6	197	208	220	300	-0.67
	Asian	885	224.49	22.2	210	226	239	300	-0.26
	Native Hawaiian/Pacific Islander	56	213.34	19.0	198	213	225	278	0.69
	Black/African American	5,056	202.95	18.3	191	201	214	278	-0.32
	American Indian	66	211.82	22.8	201	213	226	253	-1.72
	White	38,474	216.83	19.0	204	217	230	300	-0.04
	Other	1,599	212.25	18.6	200	211	224	300	-0.08
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,967	214.91	19.5	201	214	228	300	-0.09
	Migrant	178	202.04	21.1	192	202	214	242	-1.59
LEP	Non-LEP	48,042	215.38	19.3	202	216	228	300	-0.06
	LEP	1,103	192.74	16.7	185	194	201	242	-2.17
Economic Disadvantage	Free Lunch	26,216	209.09	18.3	197	208	220	300	-0.18
	Reduced-Price Lunch	2,026	215.98	18.2	202	216	228	300	0.36

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Regular Lunch	20,903	222.01	18.8	210	222	234	300	-0.16
IEP	Non-IEP	44,100	216.74	19.0	204	216	230	300	-0.14
	IEP	5,045	198.48	16.5	188	195	208	300	0.34

### Grade 5 On-Demand Writing<sup>8</sup>

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,945	224.18	35.5	196	227	248	300	-0.29
Gender	Female	25,388	232.13	34.0	212	233	251	300	-0.38
	Male	26,189	216.70	35.2	196	215	242	300	-0.20
	Missing	368	207.57	39.5	185	212	238	293	-0.38
Ethnicity	Hispanic	3,812	216.59	36.3	196	215	242	300	-0.37
	Asian	870	236.69	36.9	215	242	267	300	-0.66
	Native Hawaiian/Pacific Islander	70	225.86	34.1	196	233	251	284	-0.53
	Black/African American	5,455	207.41	35.5	185	212	233	300	-0.03
	American Indian	66	218.79	37.8	196	215	242	293	-0.56
	White	39,342	227.17	34.7	212	233	251	300	-0.31
	Other	2,328	220.80	34.4	196	215	242	300	-0.21
	Missing	2	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,725	224.25	35.5	196	227	248	300	-0.29
	Migrant	220	206.56	37.3	185	212	233	293	-0.36
LEP	Non-LEP	50,279	225.18	35.1	196	227	248	300	-0.28
	LEP	1,666	193.85	35.6	174	196	215	297	-0.34
Economic Disadvantage	Free Lunch	29,826	216.24	35.0	196	215	242	300	-0.21
	Reduced-Price Lunch	2,127	225.34	34.4	196	227	248	300	-0.23
	Regular Lunch	19,992	235.90	33.1	215	238	264	300	-0.43
IEP	Non-IEP	45,078	228.50	33.2	212	233	251	300	-0.29
	IEP	6,867	195.83	37.3	156	196	215	300	0.33

### Grade 8 On-Demand Writing

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,145	225.25	33.7	206	226	250	294	-0.59
Gender	Female	23,933	235.46	29.8	218	235	259	294	-0.69
	Male	24,856	215.76	34.1	194	219	237	294	-0.44
	Missing	356	201.17	40.1	178	206	228	292	-0.59
Ethnicity	Hispanic	3,006	218.75	33.0	206	219	237	294	-0.65
	Asian	885	239.66	33.7	219	247	262	294	-0.83
	Native Hawaiian/Pacific Islander	56	227.82	32.7	206	235	250	294	-0.40
	Black/African American	5,056	206.52	34.6	185	206	228	294	-0.44
	American Indian	66	217.52	37.4	206	226	247	280	-1.07

<sup>8</sup> 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
	White	38,474	228.05	32.6	208	228	250	294	-0.60
	Other	1,599	221.61	33.9	206	226	247	294	-0.59
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,967	225.32	33.6	206	228	250	294	-0.59
	Migrant	178	206.13	41.6	185	218	235	292	-0.74
LEP	Non-LEP	48,042	226.01	33.3	206	228	250	294	-0.58
	LEP	1,103	192.34	35.1	175	194	218	278	-0.59
Economic Disadvantage	Free Lunch	26,216	216.85	33.6	196	219	237	294	-0.53
	Reduced-Price Lunch	2,026	226.65	31.1	208	228	247	294	-0.45
	Regular Lunch	20,903	235.65	31.0	218	237	259	294	-0.73
IEP	Non-IEP	44,100	229.42	31.1	208	228	250	294	-0.60
	IEP	5,045	188.86	33.1	151	187	208	294	0.03

### Grade 11 On-Demand Writing

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	45,452	235.17	36.1	217	238	265	300	-0.63
Gender	Female	22,287	243.13	34.0	220	242	265	300	-0.83
	Male	22,925	227.77	36.3	205	229	248	300	-0.46
	Missing	240	204.21	45.3	186	207	233	300	-0.71
Ethnicity	Hispanic	2,455	226.61	37.5	205	229	248	300	-0.62
	Asian	836	248.14	40.0	229	248	282	300	-0.87
	Native Hawaiian/Pacific Islander	66	233.76	42.9	207	229	265	300	-0.75
	Black/African American	4,789	217.75	36.3	197	217	238	300	-0.69
	American Indian	61	238.39	40.6	217	248	265	300	-0.98
	White	36,085	237.89	35.0	217	238	265	300	-0.62
	Other	1,153	231.10	38.1	207	233	251	300	-0.72
	Missing	7	--	--	--	--	--	--	--
Migrant	Non-Migrant	45,361	235.21	36.1	217	238	265	300	-0.63
	Migrant	91	217.02	37.0	188	217	242	300	0.03
LEP	Non-LEP	44,452	236.03	35.7	217	238	265	300	-0.64
	LEP	1,000	197.13	33.5	171	197	217	284	-0.69
Economic Disadvantage	Free Lunch	21,504	225.40	35.8	205	229	248	300	-0.61
	Reduced-Price Lunch	1,860	237.35	31.8	217	238	265	300	-0.28
	Regular Lunch	22,088	244.50	34.3	220	248	265	300	-0.74
IEP	Non-IEP	41,679	238.40	34.7	217	238	265	300	-0.71
	IEP	3,773	199.55	31.9	171	197	220	300	-0.11

## Appendix L. Performance Level Rates<sup>9</sup>

### Grade 3 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,207	23.9%	23.7%	30.9%	21.4%
Gender	Female	24,816	21.4%	22.9%	32.0%	23.7%
	Male	25,955	26.2%	24.5%	29.9%	19.4%
Ethnicity	Hispanic	3,784	33.9%	27.6%	26.7%	11.7%
	Asian	825	17.1%	16.6%	32.8%	33.5%
	Native Hawaiian/Pacific Islander	63	34.9%	15.9%	27.0%	22.2%
	Black/African American	5,334	45.7%	25.6%	20.9%	7.7%
	American Indian	51	27.5%	25.5%	31.4%	15.7%
	White	38,223	20.0%	22.8%	32.7%	24.5%
	Other	2,401	26.7%	25.9%	30.1%	17.4%
	Missing	526	14.3%	44.7%	31.6%	9.5%
Migrant	Non-Migrant	50,955	23.9%	23.7%	30.9%	21.5%
	Migrant	252	38.1%	26.6%	30.2%	5.2%
LEP	Non-LEP	48,262	22.9%	23.3%	31.4%	22.5%
	LEP	2,945	41.8%	31.1%	22.6%	4.5%
Economic Disadvantage	Free Lunch	29,977	31.1%	26.2%	28.6%	14.1%
	Reduced-Price Lunch	1,982	19.7%	23.0%	32.1%	25.2%
	Regular Lunch	19,248	13.3%	19.9%	34.3%	32.5%
IEP	Non-IEP	43,523	20.7%	24.0%	32.5%	22.8%
	IEP	7,684	42.1%	22.3%	21.6%	14.0%

### Grade 4 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,166	18.5%	27.8%	38.0%	15.7%
Gender	Female	25,260	16.4%	27.7%	39.3%	16.7%
	Male	26,518	20.4%	27.8%	36.9%	15.0%
Ethnicity	Hispanic	3,928	26.8%	31.9%	32.6%	8.7%
	Asian	851	11.8%	20.7%	40.5%	27.0%
	Native Hawaiian/Pacific Islander	80	20.0%	26.3%	42.5%	11.3%
	Black/African American	5,469	38.3%	32.7%	23.5%	5.5%
	American Indian	57	29.8%	28.1%	31.6%	10.5%
	White	38,956	15.0%	26.4%	40.6%	17.9%
	Other	2,311	20.5%	29.8%	37.3%	12.4%
	Missing	514	12.6%	46.7%	31.7%	8.9%
Migrant	Non-Migrant	51,944	18.5%	27.7%	38.0%	15.8%
	Migrant	222	35.1%	33.3%	29.7%	1.8%

<sup>9</sup> Alternate K-PREP students are included.

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
LEP	Non-LEP	49,598	17.5%	27.3%	38.8%	16.4%
	LEP	2,568	39.1%	36.9%	21.9%	2.1%
Economic Disadvantage	Free Lunch	30,233	24.7%	31.5%	34.0%	9.8%
	Reduced-Price Lunch	2,047	14.7%	28.3%	40.6%	16.4%
	Regular Lunch	19,886	9.6%	22.0%	43.7%	24.7%
IEP	Non-IEP	44,650	15.2%	27.8%	40.2%	16.8%
	IEP	7,516	38.1%	27.5%	24.8%	9.5%

### Grade 5 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,523	18.4%	23.8%	38.4%	19.5%
Gender	Female	25,581	15.5%	23.2%	39.9%	21.4%
	Male	26,574	21.0%	24.3%	37.0%	17.7%
Ethnicity	Hispanic	3,812	27.1%	28.1%	33.8%	11.0%
	Asian	870	14.9%	16.9%	37.6%	30.6%
	Native Hawaiian/Pacific Islander	70	18.6%	31.4%	37.1%	12.9%
	Black/African American	5,455	35.5%	28.7%	28.0%	7.7%
	American Indian	66	25.8%	25.8%	28.8%	19.7%
	White	39,342	15.2%	22.4%	40.3%	22.1%
	Other	2,328	19.9%	25.7%	37.9%	16.5%
	Missing	580	15.7%	41.9%	36.7%	5.7%
Migrant	Non-Migrant	52,303	18.3%	23.7%	38.4%	19.5%
	Migrant	220	37.7%	32.3%	25.0%	5.0%
LEP	Non-LEP	50,857	17.1%	23.6%	39.2%	20.1%
	LEP	1,666	56.4%	28.9%	13.5%	1.3%
Economic Disadvantage	Free Lunch	29,826	24.7%	27.1%	35.9%	12.3%
	Reduced-Price Lunch	2,127	15.7%	22.9%	41.3%	20.1%
	Regular Lunch	20,570	9.5%	19.1%	41.7%	29.7%
IEP	Non-IEP	45,656	14.9%	23.7%	40.5%	20.9%
	IEP	6,867	41.8%	24.2%	24.1%	9.9%

### Grade 6 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,756	20.2%	20.1%	39.7%	20.0%
Gender	Female	24,387	16.9%	19.2%	41.0%	22.9%
	Male	26,006	23.1%	20.9%	38.6%	17.4%
Ethnicity	Hispanic	3,573	27.3%	23.6%	36.0%	13.1%
	Asian	867	13.7%	12.6%	36.0%	37.7%
	Native Hawaiian/Pacific Islander	57	31.6%	28.1%	26.3%	14.0%
	Black/African American	5,080	40.3%	24.1%	28.5%	7.1%
	American Indian	73	15.1%	23.3%	41.1%	20.5%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	White	38,466	16.8%	19.0%	41.9%	22.3%
	Other	2,039	22.2%	22.7%	38.4%	16.7%
	Missing	601	27.6%	35.3%	30.0%	7.2%
Migrant	Non-Migrant	50,561	20.2%	20.0%	39.8%	20.0%
	Migrant	195	41.0%	27.2%	28.2%	3.6%
LEP	Non-LEP	49,579	19.2%	20.0%	40.4%	20.4%
	LEP	1,177	65.0%	24.0%	10.2%	0.8%
Economic Disadvantage	Free Lunch	28,170	27.2%	23.5%	36.9%	12.4%
	Reduced-Price Lunch	2,060	17.9%	20.9%	41.5%	19.7%
	Regular Lunch	20,526	10.9%	15.3%	43.4%	30.5%
IEP	Non-IEP	44,869	16.6%	19.7%	41.9%	21.7%
	IEP	5,887	47.6%	22.8%	23.1%	6.5%

### Grade 7 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,783	20.1%	22.5%	39.4%	18.1%
Gender	Female	24,092	15.8%	21.2%	41.4%	21.7%
	Male	25,362	23.9%	23.6%	37.6%	14.8%
Ethnicity	Hispanic	3,240	28.1%	27.2%	34.7%	10.0%
	Asian	880	14.0%	14.1%	42.3%	29.7%
	Native Hawaiian/Pacific Islander	61	26.2%	29.5%	27.9%	16.4%
	Black/African American	5,165	40.4%	25.5%	27.2%	6.8%
	American Indian	63	22.2%	17.5%	42.9%	17.5%
	White	37,998	16.6%	21.3%	41.7%	20.4%
	Other	1,855	21.9%	25.5%	37.8%	14.8%
	Missing	521	22.8%	47.4%	21.9%	7.9%
Migrant	Non-Migrant	49,616	20.0%	22.4%	39.4%	18.2%
	Migrant	167	43.7%	28.1%	25.7%	2.4%
LEP	Non-LEP	48,634	18.9%	22.4%	40.1%	18.5%
	LEP	1,149	68.2%	23.3%	8.0%	0.4%
Economic Disadvantage	Free Lunch	26,972	27.9%	26.2%	35.3%	10.6%
	Reduced-Price Lunch	2,021	15.6%	22.3%	42.7%	19.4%
	Regular Lunch	20,790	10.3%	17.6%	44.3%	27.8%
IEP	Non-IEP	44,429	16.2%	22.2%	42.0%	19.7%
	IEP	5,354	52.5%	24.5%	17.9%	5.1%

### Grade 8 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,712	17%	20.0%	36%	27%
Gender	Female	24,132	11.6%	18.2%	37.3%	32.9%
	Male	25,224	21.8%	21.7%	34.8%	21.7%
Ethnicity	Hispanic	3,006	23%	25.4%	35.1%	16.5%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Asian	885	12.3%	13.2%	31.9%	42.6%
	Native Hawaiian/Pacific Islander	56	19.6%	21.4%	35.7%	23.2%
	Black/African American	5,056	36.6%	25.5%	27.6%	10.3%
	American Indian	66	13.6%	24.2%	39.4%	22.7%
	White	38,474	13.9%	18.5%	37.4%	30.2%
	Other	1,599	18.9%	20.8%	37.3%	23.0%
	Missing	570	21.6%	51.4%	20.9%	6.1%
Migrant	Non-Migrant	49,534	16.9%	20.0%	36.0%	27.1%
	Migrant	178	38.2%	24.7%	28.7%	8.4%
LEP	Non-LEP	48,609	15.9%	19.9%	36.6%	27.6%
	LEP	1,103	63.7%	24.9%	9.8%	1.5%
Economic Disadvantage	Free Lunch	26,216	23.9%	23.8%	35.1%	17.2%
	Reduced-Price Lunch	2,026	14.6%	19.8%	38.4%	27.2%
	Regular Lunch	21,470	8.8%	15.4%	36.8%	39.0%
IEP	Non-IEP	44,667	13.2%	19.4%	38.0%	29.4%
	IEP	5,045	50.6%	25.0%	17.9%	6.5%

### Grade 3 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,207	18.7%	34.0%	34.7%	12.6%
Gender	Female	24,816	18.0%	35.2%	35.0%	11.8%
	Male	25,955	19.0%	32.8%	34.6%	13.6%
Ethnicity	Hispanic	3,784	26.3%	38.5%	28.3%	7.0%
	Asian	825	10.2%	18.8%	36.4%	34.7%
	Native Hawaiian/Pacific Islander	63	23.8%	39.7%	25.4%	11.1%
	Black/African American	5,334	36.1%	37.7%	22.1%	4.1%
	American Indian	51	23.5%	25.5%	35.3%	15.7%
	White	38,223	15.3%	33.1%	37.5%	14.2%
	Other	2,401	20.7%	37.3%	31.8%	10.2%
	Missing	526	36.1%	41.6%	19.8%	2.5%
Migrant	Non-Migrant	50,955	18.6%	34.0%	34.8%	12.7%
	Migrant	252	32.9%	38.1%	26.2%	2.8%
LEP	Non-LEP	48,262	17.8%	33.6%	35.4%	13.1%
	LEP	2,945	32.4%	40.2%	23.1%	4.3%
Economic Disadvantage	Free Lunch	29,977	24.6%	38.2%	30.0%	7.3%
	Reduced-Price Lunch	1,982	14.0%	33.2%	39.7%	13.1%
	Regular Lunch	19,248	10.0%	27.6%	41.5%	20.9%
IEP	Non-IEP	43,523	15.2%	34.2%	37.0%	13.6%
	IEP	7,684	38.2%	33.0%	21.9%	6.8%



## Grade 4 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,166	21.4%	31.4%	31.1%	16.1%
Gender	Female	25,260	20.4%	32.9%	31.7%	14.9%
	Male	26,518	22.0%	29.9%	30.6%	17.4%
Ethnicity	Hispanic	3,928	26.3%	36.1%	27.9%	9.7%
	Asian	851	8.7%	20.0%	32.3%	39.0%
	Native Hawaiian/Pacific Islander	80	32.5%	21.3%	30.0%	16.3%
	Black/African American	5,469	44.0%	33.1%	18.2%	4.7%
	American Indian	57	26.3%	40.4%	26.3%	7.0%
	White	38,956	17.8%	30.4%	33.4%	18.3%
	Other	2,311	23.7%	34.5%	30.3%	11.5%
Migrant	Missing	514	21.8%	56.2%	18.9%	3.1%
	Non-Migrant	51,944	21.3%	31.4%	31.1%	16.2%
LEP	Migrant	222	33.3%	36.0%	25.7%	5.0%
	Non-LEP	49,598	20.6%	31.0%	31.6%	16.8%
Economic Disadvantage	LEP	2,568	36.2%	39.1%	20.9%	3.7%
	Free Lunch	30,233	28.0%	34.8%	27.8%	9.4%
	Reduced-Price Lunch	2,047	17.3%	31.9%	36.0%	14.9%
IEP	Regular Lunch	19,886	11.7%	26.2%	35.6%	26.5%
	Non-IEP	44,650	18.0%	31.7%	33.0%	17.4%
IEP	IEP	7,516	41.8%	29.7%	19.8%	8.7%

## Grade 5 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,523	16.5%	31.4%	31.7%	20.3%
Gender	Female	25,581	14.6%	33.1%	32.8%	19.4%
	Male	26,574	18.2%	29.7%	30.8%	21.4%
Ethnicity	Hispanic	3,812	21.0%	35.4%	30.8%	12.8%
	Asian	870	7.4%	19.4%	29.2%	44.0%
	Native Hawaiian/Pacific Islander	70	24.3%	37.1%	18.6%	20.0%
	Black/African American	5,455	32.6%	37.7%	23.2%	6.5%
	American Indian	66	15.2%	34.8%	28.8%	21.2%
	White	39,342	13.8%	30.0%	33.3%	23.0%
	Other	2,328	19.0%	34.8%	30.5%	15.7%
Migrant	Missing	580	27.6%	44.1%	23.8%	4.5%
	Non-Migrant	52,303	16.5%	31.4%	31.7%	20.4%
LEP	Migrant	220	31.4%	35.9%	27.7%	5.0%
	Non-LEP	50,857	15.7%	31.1%	32.3%	20.9%
Economic Disadvantage	LEP	1,666	42.0%	39.5%	14.9%	3.6%
	Free Lunch	29,826	22.2%	36.4%	29.5%	11.9%
	Reduced-Price Lunch	2,127	12.5%	31.0%	35.6%	20.9%
IEP	Regular Lunch	20,570	8.8%	24.3%	34.5%	32.5%
	IEP					

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
IEP	Non-IEP	45,656	13.1%	31.1%	33.7%	22.1%
	IEP	6,867	39.2%	33.6%	18.3%	8.9%

### Grade 6 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,756	11.6%	40.9%	33.7%	13.9%
Gender	Female	24,387	10.1%	39.4%	36.1%	14.4%
	Male	26,006	12.7%	42.1%	31.7%	13.5%
Ethnicity	Hispanic	3,573	15.7%	48.0%	28.7%	7.6%
	Asian	867	6.0%	21.9%	33.7%	38.4%
	Native Hawaiian/Pacific Islander	57	12.3%	50.9%	28.1%	8.8%
	Black/African American	5,080	26.5%	49.5%	20.0%	3.9%
	American Indian	73	8.2%	42.5%	32.9%	16.4%
	White	38,466	9.1%	39.2%	36.2%	15.5%
	Other	2,039	13.9%	44.3%	31.7%	10.1%
	Missing	601	20.6%	49.4%	24.1%	5.8%
Migrant	Non-Migrant	50,561	11.5%	40.8%	33.8%	13.9%
	Migrant	195	25.6%	50.3%	22.6%	1.5%
LEP	Non-LEP	49,579	10.9%	40.7%	34.3%	14.1%
	LEP	1,177	40.4%	48.8%	9.4%	1.4%
Economic Disadvantage	Free Lunch	28,170	15.8%	47.9%	28.8%	7.5%
	Reduced-Price Lunch	2,060	9.2%	41.4%	37.0%	12.5%
	Regular Lunch	20,526	5.9%	31.2%	40.1%	22.8%
IEP	Non-IEP	44,869	8.7%	40.0%	36.1%	15.1%
	IEP	5,887	33.2%	47.3%	15.2%	4.3%

### Grade 7 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,783	14.0%	38.5%	34.0%	13.5%
Gender	Female	24,092	11.8%	38.4%	36.1%	13.7%
	Male	25,362	16.0%	38.4%	32.1%	13.5%
Ethnicity	Hispanic	3,240	18.8%	47.0%	26.9%	7.3%
	Asian	880	6.8%	21.5%	34.5%	37.2%
	Native Hawaiian/Pacific Islander	61	23.0%	39.3%	31.1%	6.6%
	Black/African American	5,165	31.9%	45.1%	19.2%	3.8%
	American Indian	63	15.9%	36.5%	28.6%	19.0%
	White	37,998	11.0%	36.9%	37.0%	15.2%
	Other	1,855	15.7%	43.8%	30.5%	10.0%
	Missing	521	35.3%	46.8%	15.7%	2.1%
Migrant	Non-Migrant	49,616	14.0%	38.4%	34.0%	13.6%
	Migrant	167	23.4%	53.3%	20.4%	3.0%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
LEP	Non-LEP	48,634	13.3%	38.3%	34.6%	13.8%
	LEP	1,149	46.8%	44.7%	7.2%	1.2%
Economic Disadvantage	Free Lunch	26,972	19.5%	45.7%	28.1%	6.8%
	Reduced-Price Lunch	2,021	10.7%	37.1%	37.9%	14.3%
	Regular Lunch	20,790	7.3%	29.2%	41.2%	22.2%
IEP	Non-IEP	44,429	11.3%	37.7%	36.4%	14.6%
	IEP	5,354	37.0%	44.5%	13.9%	4.6%

### Grade 8 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,712	16.8%	36.9%	34.4%	11.8%
Gender	Female	24,132	13.4%	37.2%	37.1%	12.2%
	Male	25,224	19.8%	36.6%	32.0%	11.5%
Ethnicity	Hispanic	3,006	22.8%	43.5%	28.2%	5.5%
	Asian	885	6.7%	20.9%	38.3%	34.1%
	Native Hawaiian/Pacific Islander	56	14.3%	35.7%	41.1%	8.9%
	Black/African American	5,056	36.0%	40.9%	20.2%	2.9%
	American Indian	66	10.6%	57.6%	25.8%	6.1%
	White	38,474	13.9%	35.9%	37.1%	13.2%
	Other	1,599	18.2%	42.5%	29.6%	9.6%
	Missing	570	28.2%	47.5%	20.4%	3.9%
Migrant	Non-Migrant	49,534	16.8%	36.9%	34.5%	11.8%
	Migrant	178	38.2%	41.6%	18.0%	2.2%
LEP	Non-LEP	48,609	16.2%	36.8%	35.0%	12.0%
	LEP	1,103	47.0%	42.7%	8.8%	1.5%
Economic Disadvantage	Free Lunch	26,216	23.7%	42.6%	28.0%	5.7%
	Reduced-Price Lunch	2,026	13.6%	38.8%	36.7%	10.8%
	Regular Lunch	21,470	8.8%	29.8%	42.1%	19.4%
IEP	Non-IEP	44,667	13.3%	37.0%	36.8%	12.9%
	IEP	5,045	48.3%	36.6%	12.9%	2.3%

### Grade 4 Science

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,166	15.3%	53.9%	27.7%	3.2%
Gender	Female	25,260	14.3%	55.2%	27.6%	3.0%
	Male	26,518	16.0%	52.7%	27.9%	3.4%
Ethnicity	Hispanic	3,928	21.3%	58.3%	19.1%	1.3%
	Asian	851	8.6%	43.2%	40.2%	8.0%
	Native Hawaiian/Pacific Islander	80	21.3%	53.8%	20.0%	5.0%
	Black/African American	5,469	35.1%	53.9%	10.5%	0.5%
	American Indian	57	21.1%	61.4%	17.5%	0.0%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	White	38,956	11.8%	53.6%	30.9%	3.6%
	Other	2,311	16.9%	57.1%	23.7%	2.3%
	Missing	514	23.7%	43.6%	27.4%	5.3%
Migrant	Non-Migrant	51,944	15.2%	53.9%	27.7%	3.2%
	Migrant	222	22.5%	63.1%	13.5%	0.9%
LEP	Non-LEP	49,598	14.5%	53.5%	28.7%	3.3%
	LEP	2,568	29.9%	61.0%	8.7%	0.4%
Economic Disadvantage	Free Lunch	30,233	20.2%	57.9%	20.4%	1.5%
	Reduced-Price Lunch	2,047	11.6%	55.5%	30.4%	2.5%
	Regular Lunch	19,886	8.1%	47.7%	38.5%	5.7%
IEP	Non-IEP	44,650	13.2%	54.1%	29.4%	3.3%
	IEP	7,516	27.5%	52.4%	17.6%	2.5%

### Grade 7 Science

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,783	20.6%	53.5%	24.0%	1.9%
Gender	Female	24,092	18.5%	55.2%	24.3%	1.9%
	Male	25,362	22.4%	51.9%	23.8%	1.9%
Ethnicity	Hispanic	3,240	27.2%	56.2%	15.4%	1.2%
	Asian	880	10.0%	41.1%	39.8%	9.1%
	Native Hawaiian/Pacific Islander	61	34.4%	42.6%	21.3%	1.6%
	Black/African American	5,165	40.0%	50.0%	9.8%	0.3%
	American Indian	63	22.2%	49.2%	28.6%	0.0%
	White	37,998	17.5%	54.0%	26.4%	2.1%
	Other	1,855	24.7%	54.3%	20.0%	1.0%
	Missing	521	20.7%	50.3%	26.1%	2.9%
Migrant	Non-Migrant	49,616	20.6%	53.5%	24.0%	1.9%
	Migrant	167	38.9%	55.7%	5.4%	0.0%
LEP	Non-LEP	48,634	19.9%	53.7%	24.5%	2.0%
	LEP	1,149	54.0%	44.6%	1.5%	0.0%
Economic Disadvantage	Free Lunch	26,972	27.9%	56.2%	15.4%	0.6%
	Reduced-Price Lunch	2,021	16.9%	54.2%	26.8%	2.1%
	Regular Lunch	20,790	11.6%	50.0%	34.8%	3.6%
IEP	Non-IEP	44,429	17.8%	54.2%	25.9%	2.1%
	IEP	5,354	44.3%	47.8%	7.8%	0.2%

### Grade 5 Social Studies

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,523	13.6%	33.3%	41.4%	11.6%
Gender	Female	25,581	13.0%	35.6%	40.7%	10.6%
	Male	26,574	14.0%	31.0%	42.3%	12.7%
Ethnicity	Hispanic	3,812	20.6%	40.0%	33.4%	6.0%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Asian	870	10.9%	23.9%	42.4%	22.8%
	Native Hawaiian/Pacific Islander	70	14.3%	35.7%	40.0%	10.0%
	Black/African American	5,455	30.6%	39.7%	26.2%	3.4%
	American Indian	66	13.6%	34.8%	37.9%	13.6%
	White	39,342	10.5%	31.5%	44.7%	13.3%
	Other	2,328	15.4%	37.6%	37.8%	9.1%
	Missing	580	13.1%	47.9%	31.7%	7.2%
Migrant	Non-Migrant	52,303	13.6%	33.3%	41.5%	11.7%
	Migrant	220	29.1%	39.1%	30.0%	1.8%
LEP	Non-LEP	50,857	12.6%	33.0%	42.4%	12.0%
	LEP	1,666	45.4%	42.3%	11.7%	0.7%
Economic Disadvantage	Free Lunch	29,826	18.9%	38.6%	36.0%	6.5%
	Reduced-Price Lunch	2,127	10.7%	33.1%	44.4%	11.8%
	Regular Lunch	20,570	6.2%	25.7%	49.0%	19.1%
IEP	Non-IEP	45,656	10.3%	32.8%	44.3%	12.6%
	IEP	6,867	35.6%	36.7%	22.6%	5.1%

### Grade 8 Social Studies

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,712	9.4%	30.2%	43.0%	17.4%
Gender	Female	24,132	7.5%	31.0%	44.5%	17.0%
	Male	25,224	11.0%	29.4%	41.6%	18.0%
Ethnicity	Hispanic	3,006	13.8%	38.4%	39.0%	8.8%
	Asian	885	6.4%	16.9%	42.3%	34.4%
	Native Hawaiian/Pacific Islander	56	8.9%	32.1%	48.2%	10.7%
	Black/African American	5,056	24.2%	40.6%	29.5%	5.7%
	American Indian	66	7.6%	36.4%	40.9%	15.2%
	White	38,474	6.9%	28.1%	45.5%	19.5%
	Other	1,599	9.5%	36.0%	40.9%	13.6%
	Missing	570	31.1%	44.9%	17.5%	6.5%
Migrant	Non-Migrant	49,534	9.4%	30.2%	43.0%	17.4%
	Migrant	178	23.0%	44.4%	24.2%	8.4%
LEP	Non-LEP	48,609	8.7%	29.9%	43.7%	17.8%
	LEP	1,103	42.1%	47.1%	10.2%	0.6%
Economic Disadvantage	Free Lunch	26,216	13.6%	38.1%	38.6%	9.8%
	Reduced-Price Lunch	2,026	7.0%	28.8%	46.9%	17.3%
	Regular Lunch	21,470	4.6%	20.8%	47.9%	26.7%
IEP	Non-IEP	44,667	6.7%	28.7%	45.6%	19.0%
	IEP	5,045	33.4%	43.6%	19.6%	3.4%

### Grade 5 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,523	18.1%	41.4%	33.0%	7.5%
Gender	Female	25,581	12.1%	38.3%	39.1%	10.5%
	Male	26,574	23.7%	44.3%	27.2%	4.7%
Ethnicity	Hispanic	3,812	23.4%	44.4%	27.5%	4.7%
	Asian	870	11.7%	32.1%	40.6%	15.6%
	Native Hawaiian/Pacific Islander	70	17.1%	37.1%	42.9%	2.9%
	Black/African American	5,455	33.3%	43.9%	19.9%	3.0%
	American Indian	66	19.7%	48.5%	24.2%	7.6%
	White	39,342	15.6%	40.8%	35.3%	8.4%
	Other	2,328	20.0%	44.1%	30.3%	5.5%
	Missing	580	17.8%	38.6%	38.3%	5.3%
Migrant	Non-Migrant	52,303	18.1%	41.4%	33.0%	7.5%
	Migrant	220	33.6%	41.8%	22.7%	1.8%
LEP	Non-LEP	50,857	17.2%	41.3%	33.7%	7.7%
	LEP	1,666	45.3%	43.3%	10.9%	0.5%
Economic Disadvantage	Free Lunch	29,826	23.9%	45.0%	26.8%	4.4%
	Reduced-Price Lunch	2,127	16.5%	43.2%	32.4%	7.9%
	Regular Lunch	20,570	10.0%	35.9%	42.1%	12.0%
IEP	Non-IEP	45,656	13.4%	42.4%	36.0%	8.2%
	IEP	6,867	49.3%	34.7%	13.3%	2.7%

### Grade 8 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,712	14.3%	41.4%	33.6%	10.8%
Gender	Female	24,132	7.1%	35.4%	41.8%	15.8%
	Male	25,224	20.9%	47.1%	25.9%	6.1%
Ethnicity	Hispanic	3,006	17.2%	47.7%	28.7%	6.5%
	Asian	885	8.2%	27.8%	39.7%	24.3%
	Native Hawaiian/Pacific Islander	56	17.9%	30.4%	41.1%	10.7%
	Black/African American	5,056	29.2%	47.9%	19.3%	3.7%
	American Indian	66	18.2%	43.9%	33.3%	4.5%
	White	38,474	12.0%	40.1%	36.0%	11.9%
	Other	1,599	15.9%	44.6%	30.9%	8.6%
	Missing	570	24.2%	50.5%	19.6%	5.6%
Migrant	Non-Migrant	49,534	14.2%	41.4%	33.6%	10.8%
	Migrant	178	28.1%	44.4%	23.0%	4.5%
LEP	Non-LEP	48,609	13.6%	41.2%	34.1%	11.0%
	LEP	1,103	42.2%	47.1%	10.2%	0.5%
Economic Disadvantage	Free Lunch	26,216	19.5%	46.8%	27.7%	6.1%
	Reduced-Price Lunch	2,026	12.1%	42.5%	35.1%	10.2%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Regular Lunch	21,470	8.2%	34.6%	40.6%	16.6%
IEP	Non-IEP	44,667	10.1%	41.6%	36.4%	11.9%
	IEP	5,045	50.9%	39.7%	8.3%	1.0%

### Grade 11 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	46,059	15.4%	32.2%	38.2%	14.1%
Gender	Female	22,494	9.2%	27.8%	44.5%	18.5%
	Male	23,325	21.1%	36.4%	32.4%	10.1%
Ethnicity	Hispanic	2,455	20.9%	36.2%	33.1%	9.9%
	Asian	836	11.8%	21.7%	34.9%	31.6%
	Native Hawaiian/Pacific Islander	66	13.6%	39.4%	25.8%	21.2%
	Black/African American	4,789	28.5%	38.8%	27.6%	5.1%
	American Indian	61	14.8%	21.3%	44.3%	19.7%
	White	36,085	13.4%	30.9%	40.3%	15.4%
	Other	1,153	17.7%	33.0%	36.2%	13.2%
	Missing	614	12.5%	55.2%	29.2%	3.1%
Migrant	Non-Migrant	45,968	15.4%	32.2%	38.3%	14.1%
	Migrant	91	36.3%	30.8%	25.3%	7.7%
LEP	Non-LEP	45,059	14.6%	32.1%	38.9%	14.4%
	LEP	1,000	51.3%	37.8%	10.2%	0.7%
Economic Disadvantage	Free Lunch	21,504	21.8%	37.5%	32.7%	7.9%
	Reduced-Price Lunch	1,860	12.6%	33.1%	40.8%	13.5%
	Regular Lunch	22,695	9.6%	27.1%	43.3%	20.1%
IEP	Non-IEP	42,286	12.0%	32.1%	40.7%	15.3%
	IEP	3,773	54.1%	33.5%	10.7%	1.6%

## Appendix M. Reliability<sup>10</sup>

### Overall Test

#### *Grade 3 Reading*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,101	0.87	0.86	0.44	6.47
Gender	Female	23,544	0.87	0.86	0.42	6.52
	Male	24,158	0.87	0.87	0.44	6.43
Ethnicity	Hispanic	3,584	0.86	0.85	0.42	6.34
	Asian	809	0.88	0.87	0.38	6.64
	Native Hawaiian/Pacific Islander	59	0.88	0.88	0.28	6.46
	Black/African American	4,786	0.87	0.86	0.45	6.27
	American Indian	45	0.88	0.86	0.50	6.26
	White	36,579	0.86	0.85	0.43	6.52
	Other	2,233	0.87	0.86	0.41	6.39
	Missing	6	--	--	--	--
Migrant	Non-Migrant	47,858	0.87	0.86	0.44	6.47
	Migrant	243	0.84	0.83	0.50	6.27
LEP	Non-LEP	45,269	0.87	0.86	0.44	6.47
	LEP	2,832	0.82	0.81	0.40	6.18
Economic Disadvantage	Free Lunch	28,189	0.86	0.85	0.44	6.35
	Reduced-Price Lunch	1,893	0.86	0.85	0.45	6.49
	Regular Lunch	18,019	0.85	0.84	0.40	6.66
IEP	Non-IEP	40,699	0.86	0.85	0.41	6.50
	IEP	7,402	0.89	0.88	0.53	6.47

#### *Grade 4 Reading*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,988	0.84	0.80	0.59	6.03
Gender	Female	24,179	0.83	0.80	0.59	6.02
	Male	24,472	0.84	0.81	0.60	6.02
Ethnicity	Hispanic	3,672	0.82	0.77	0.58	5.95
	Asian	826	0.85	0.81	0.59	5.99
	Native Hawaiian/Pacific Islander	72	0.84	0.80	0.61	6.04
	Black/African American	4,832	0.82	0.78	0.62	5.99
	American Indian	55	0.84	0.80	0.67	5.99
	White	37,376	0.83	0.80	0.58	6.02
	Other	2,155	0.82	0.78	0.57	6.00
	Missing	--	--	--	--	--
Migrant	Non-Migrant	48,788	0.84	0.80	0.59	6.03

<sup>10</sup> Alternate K-PREP students are not included.



	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Migrant	200	0.77	0.71	0.53	5.79
LEP	Non-LEP	46,604	0.84	0.80	0.59	6.02
	LEP	2,384	0.76	0.70	0.53	5.95
Economic Disadvantage	Free Lunch	28,314	0.82	0.78	0.59	5.97
	Reduced-Price Lunch	1,976	0.83	0.79	0.55	5.93
	Regular Lunch	18,698	0.82	0.79	0.56	6.06
IEP	Non-IEP	42,078	0.83	0.79	0.58	6.00
	IEP	6,910	0.85	0.82	0.65	6.14

### *Grade 5 Reading*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,554	0.84	0.82	0.51	6.14
Gender	Female	24,299	0.84	0.81	0.49	6.17
	Male	24,917	0.85	0.83	0.51	6.10
Ethnicity	Hispanic	3,598	0.83	0.81	0.49	6.08
	Asian	826	0.86	0.84	0.57	6.38
	Native Hawaiian/Pacific Islander	63	0.81	0.80	0.20	6.03
	Black/African American	4,952	0.84	0.81	0.53	6.12
	American Indian	60	0.86	0.85	0.45	6.07
	White	37,844	0.84	0.82	0.50	6.14
	Other	2,209	0.83	0.81	0.47	6.13
	Missing	2	--	--	--	--
Migrant	Non-Migrant	49,349	0.84	0.82	0.51	6.15
	Migrant	205	0.80	0.77	0.43	5.95
LEP	Non-LEP	48,027	0.84	0.82	0.50	6.14
	LEP	1,527	0.76	0.72	0.42	6.10
Economic Disadvantage	Free Lunch	28,233	0.83	0.81	0.50	6.06
	Reduced-Price Lunch	2,048	0.83	0.81	0.50	6.13
	Regular Lunch	19,273	0.83	0.81	0.47	6.23
IEP	Non-IEP	43,003	0.83	0.81	0.47	6.14
	IEP	6,551	0.86	0.84	0.60	6.15

### *Grade 6 Reading*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,906	0.88	0.86	0.63	5.36
Gender	Female	23,783	0.87	0.85	0.61	5.40
	Male	24,795	0.88	0.86	0.63	5.29
Ethnicity	Hispanic	3,470	0.87	0.85	0.63	5.32
	Asian	847	0.89	0.87	0.67	5.45
	Native Hawaiian/Pacific Islander	55	0.88	0.87	0.62	5.33
	Black/African American	4,761	0.87	0.85	0.62	5.28
	American Indian	72	0.87	0.85	0.58	5.36
	White	37,713	0.87	0.85	0.62	5.36

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Other	1,987	0.87	0.85	0.61	5.35
	Missing	1	--	--	--	--
Migrant	Non-Migrant	48,717	0.88	0.86	0.63	5.36
	Migrant	189	0.83	0.80	0.53	5.33
LEP	Non-LEP	47,791	0.87	0.86	0.62	5.36
	LEP	1,115	0.76	0.71	0.52	5.28
Economic Disadvantage	Free Lunch	27,302	0.87	0.85	0.61	5.32
	Reduced-Price Lunch	2,005	0.87	0.85	0.59	5.33
	Regular Lunch	19,599	0.86	0.84	0.60	5.39
IEP	Non-IEP	43,252	0.87	0.85	0.61	5.36
	IEP	5,654	0.87	0.85	0.65	5.25

### *Grade 7 Reading*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	47,188	0.86	0.84	0.55	5.54
Gender	Female	23,159	0.85	0.84	0.52	5.53
	Male	23,727	0.86	0.84	0.56	5.50
Ethnicity	Hispanic	3,053	0.85	0.82	0.52	5.46
	Asian	851	0.87	0.85	0.53	5.50
	Native Hawaiian/Pacific Islander	57	0.85	0.81	0.59	5.65
	Black/African American	4,642	0.86	0.84	0.58	5.56
	American Indian	61	0.88	0.85	0.67	5.57
	White	36,771	0.85	0.83	0.54	5.54
	Other	1,747	0.85	0.83	0.53	5.54
	Missing	6	--	--	--	--
Migrant	Non-Migrant	47,033	0.86	0.84	0.55	5.54
	Migrant	155	0.83	0.79	0.61	5.31
LEP	Non-LEP	46,173	0.86	0.84	0.55	5.54
	LEP	1,015	0.75	0.71	0.44	5.50
Economic Disadvantage	Free Lunch	25,491	0.85	0.83	0.55	5.51
	Reduced-Price Lunch	1,959	0.85	0.83	0.51	5.55
	Regular Lunch	19,738	0.84	0.81	0.51	5.55
IEP	Non-IEP	42,177	0.84	0.82	0.53	5.53
	IEP	5,011	0.86	0.84	0.57	5.55

### *Grade 8 Reading*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,202	0.87	0.85	0.57	5.55
Gender	Female	23,668	0.86	0.84	0.51	5.55
	Male	24,215	0.87	0.86	0.58	5.50
Ethnicity	Hispanic	2,915	0.86	0.84	0.57	5.51
	Asian	872	0.89	0.88	0.61	5.62
	Native Hawaiian/Pacific Islander	54	0.87	0.85	0.68	5.70

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Black/African American	4,752	0.86	0.84	0.59	5.57
	American Indian	64	0.84	0.82	0.57	5.53
	White	37,968	0.86	0.85	0.55	5.53
	Other	1,575	0.87	0.85	0.56	5.61
	Missing	2	--	--	--	--
Migrant	Non-Migrant	48,037	0.87	0.85	0.57	5.55
	Migrant	165	0.86	0.84	0.55	5.55
LEP	Non-LEP	47,192	0.87	0.85	0.56	5.55
	LEP	1,010	0.76	0.72	0.51	5.61
Economic Disadvantage	Free Lunch	25,546	0.86	0.84	0.57	5.52
	Reduced-Price Lunch	1,986	0.86	0.84	0.51	5.55
	Regular Lunch	20,670	0.85	0.83	0.53	5.55
IEP	Non-IEP	43,373	0.86	0.84	0.54	5.54
	IEP	4,829	0.85	0.82	0.61	5.58

### *Grade 3 Mathematics*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,413	0.91	0.90	0.60	6.11
Gender	Female	23,704	0.90	0.89	0.58	6.04
	Male	24,323	0.91	0.90	0.61	6.16
Ethnicity	Hispanic	3,579	0.90	0.89	0.59	5.87
	Asian	804	0.92	0.92	0.65	6.73
	Native Hawaiian/Pacific Islander	60	0.91	0.90	0.58	6.71
	Black/African American	4,851	0.90	0.88	0.57	5.76
	American Indian	48	0.91	0.90	0.67	6.11
	White	36,794	0.90	0.89	0.58	6.15
	Other	2,271	0.90	0.89	0.57	5.95
	Missing	6	--	--	--	--
Migrant	Non-Migrant	48,174	0.91	0.90	0.60	6.11
	Migrant	239	0.90	0.88	0.60	5.77
LEP	Non-LEP	45,622	0.91	0.90	0.59	6.12
	LEP	2,791	0.89	0.88	0.56	5.76
Economic Disadvantage	Free Lunch	28,396	0.90	0.89	0.58	5.84
	Reduced-Price Lunch	1,894	0.90	0.89	0.60	6.18
	Regular Lunch	18,123	0.90	0.89	0.56	6.42
IEP	Non-IEP	41,196	0.90	0.89	0.56	6.17
	IEP	7,217	0.91	0.90	0.67	5.92

### *Grade 4 Mathematics*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,747	0.90	0.89	0.69	5.72
Gender	Female	24,351	0.90	0.88	0.68	5.70
	Male	25,041	0.91	0.90	0.70	5.73

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
Ethnicity	Hispanic	3,770	0.89	0.87	0.67	5.44
	Asian	830	0.92	0.91	0.71	6.43
	Native Hawaiian/Pacific Islander	77	0.92	0.91	0.72	5.83
	Black/African American	5,078	0.88	0.86	0.65	5.38
	American Indian	54	0.87	0.85	0.65	5.23
	White	37,729	0.90	0.89	0.68	5.75
	Other	2,208	0.90	0.88	0.67	5.63
	Missing	1	--	--	--	--
Migrant	Non-Migrant	49,536	0.90	0.89	0.69	5.72
	Migrant	211	0.87	0.85	0.64	5.33
LEP	Non-LEP	47,263	0.90	0.89	0.69	5.74
	LEP	2,484	0.86	0.84	0.63	5.33
Economic Disadvantage	Free Lunch	28,912	0.89	0.87	0.68	5.54
	Reduced-Price Lunch	1,979	0.89	0.88	0.65	5.64
	Regular Lunch	18,856	0.90	0.89	0.67	5.91
IEP	Non-IEP	42,562	0.90	0.88	0.67	5.73
	IEP	7,185	0.90	0.88	0.76	5.68

### *Grade 5 Mathematics*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	50,044	0.91	0.90	0.66	5.76
Gender	Female	24,615	0.91	0.89	0.66	5.72
	Male	25,089	0.92	0.91	0.67	5.79
Ethnicity	Hispanic	3,610	0.90	0.89	0.63	5.55
	Asian	844	0.92	0.92	0.66	6.25
	Native Hawaiian/Pacific Islander	69	0.92	0.91	0.68	5.59
	Black/African American	5,094	0.89	0.87	0.62	5.45
	American Indian	62	0.92	0.91	0.65	5.75
	White	38,142	0.91	0.90	0.66	5.78
	Other	2,221	0.91	0.89	0.64	5.77
	Missing	2	--	--	--	--
Migrant	Non-Migrant	49,839	0.91	0.90	0.66	5.76
	Migrant	205	0.89	0.88	0.57	5.37
LEP	Non-LEP	48,471	0.91	0.90	0.66	5.77
	LEP	1,573	0.86	0.84	0.57	5.38
Economic Disadvantage	Free Lunch	28,485	0.90	0.88	0.63	5.59
	Reduced-Price Lunch	2,063	0.91	0.89	0.66	5.79
	Regular Lunch	19,496	0.91	0.90	0.64	5.93
IEP	Non-IEP	43,474	0.91	0.90	0.64	5.79
	IEP	6,570	0.90	0.88	0.74	5.63

**Grade 6 Mathematics**

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,414	0.91	0.89	0.68	5.50
Gender	Female	23,629	0.90	0.89	0.67	5.52
	Male	24,462	0.91	0.90	0.68	5.48
Ethnicity	Hispanic	3,412	0.89	0.87	0.67	5.31
	Asian	848	0.93	0.92	0.70	6.01
	Native Hawaiian/Pacific Islander	56	0.89	0.85	0.79	5.22
	Black/African American	4,704	0.88	0.85	0.70	5.27
	American Indian	72	0.90	0.87	0.72	5.61
	White	37,382	0.91	0.89	0.66	5.51
	Other	1,939	0.90	0.88	0.66	5.41
	Missing	1	--	--	--	--
Migrant	Non-Migrant	48,232	0.91	0.89	0.67	5.50
	Migrant	182	0.85	0.81	0.68	5.18
LEP	Non-LEP	47,319	0.91	0.89	0.67	5.50
	LEP	1,095	0.82	0.78	0.63	5.22
Economic Disadvantage	Free Lunch	26,970	0.89	0.87	0.67	5.35
	Reduced-Price Lunch	1,995	0.90	0.88	0.64	5.38
	Regular Lunch	19,449	0.91	0.90	0.63	5.64
IEP	Non-IEP	42,851	0.90	0.89	0.64	5.51
	IEP	5,563	0.88	0.85	0.75	5.31

**Grade 7 Mathematics**

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	47,871	0.90	0.89	0.63	5.53
Gender	Female	23,473	0.90	0.88	0.62	5.57
	Male	24,107	0.91	0.89	0.65	5.48
Ethnicity	Hispanic	3,106	0.88	0.86	0.60	5.42
	Asian	871	0.92	0.92	0.69	6.21
	Native Hawaiian/Pacific Islander	58	0.91	0.88	0.71	5.22
	Black/African American	4,811	0.87	0.84	0.60	5.30
	American Indian	61	0.91	0.90	0.58	5.14
	White	37,157	0.90	0.89	0.62	5.52
	Other	1,800	0.89	0.88	0.61	5.43
	Missing	7	--	--	--	--
Migrant	Non-Migrant	47,711	0.90	0.89	0.63	5.53
	Migrant	160	0.84	0.81	0.53	5.52
LEP	Non-LEP	46,801	0.90	0.89	0.63	5.53
	LEP	1,070	0.80	0.75	0.56	5.26
Economic Disadvantage	Free Lunch	25,982	0.88	0.86	0.60	5.35
	Reduced-Price Lunch	1,978	0.90	0.88	0.61	5.59
	Regular Lunch	19,911	0.90	0.89	0.61	5.65

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
IEP	Non-IEP	42,749	0.90	0.88	0.62	5.54
	IEP	5,122	0.87	0.84	0.67	5.39

***Grade 8 Mathematics***

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	45,920	0.90	0.88	0.70	5.48
Gender	Female	22,771	0.90	0.87	0.69	5.47
	Male	22,859	0.91	0.89	0.71	5.48
Ethnicity	Hispanic	2,667	0.88	0.86	0.67	5.27
	Asian	850	0.92	0.91	0.73	6.11
	Native Hawaiian/Pacific Islander	51	0.89	0.87	0.69	6.30
	Black/African American	4,385	0.87	0.84	0.68	5.22
	American Indian	61	0.88	0.85	0.73	5.23
	White	36,418	0.90	0.88	0.69	5.48
	Other	1,486	0.90	0.87	0.68	5.43
	Missing	2	--	--	--	--
Migrant	Non-Migrant	45,761	0.90	0.88	0.70	5.48
	Migrant	159	0.86	0.84	0.62	5.21
LEP	Non-LEP	44,982	0.90	0.88	0.70	5.48
	LEP	938	0.83	0.78	0.61	5.26
Economic Disadvantage	Free Lunch	24,063	0.88	0.86	0.67	5.32
	Reduced-Price Lunch	1,898	0.89	0.87	0.68	5.46
	Regular Lunch	19,959	0.90	0.88	0.68	5.60
IEP	Non-IEP	41,406	0.90	0.88	0.69	5.49
	IEP	4,514	0.87	0.83	0.72	5.29

***Grade 4 Science, operational set #1***

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	24,875	0.79	0.66	0.46	0.63	5.77
Gender	Female	12,299	0.78	0.64	0.44	0.62	5.77
	Male	12,385	0.80	0.68	0.48	0.63	5.76
Ethnicity	Hispanic	1,884	0.76	0.59	0.41	0.61	5.75
	Asian	407	0.81	0.67	0.49	0.67	5.81
	Native Hawaiian/Pacific Islander	40	0.83	0.68	0.55	0.65	5.69
	Black/African American	2,482	0.76	0.60	0.39	0.62	5.91
	American Indian	27	0.73	0.44	0.43	0.62	5.62
	White	18,920	0.78	0.65	0.46	0.61	5.73
	Other	1,115	0.78	0.64	0.46	0.62	5.88
	Missing	--	--	--	--	--	--
Migrant	Non-Migrant	24,762	0.79	0.66	0.46	0.63	5.77
	Migrant	113	0.72	0.52	0.48	0.61	5.70

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
LEP	Non-LEP	23,655	0.79	0.66	0.46	0.62	5.77
	LEP	1,220	0.71	0.51	0.36	0.60	5.73
Economic Disadvantage	Free Lunch	14,471	0.78	0.63	0.44	0.62	5.79
	Reduced-Price Lunch	1,009	0.77	0.65	0.40	0.57	5.71
	Regular Lunch	9,395	0.78	0.65	0.45	0.58	5.69
IEP	Non-IEP	21,247	0.78	0.65	0.45	0.60	5.74
	IEP	3,628	0.82	0.69	0.47	0.72	5.89

*Grade 4 Science, operational set #2*

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	24,612	0.76	0.65	0.16	0.63	5.68
Gender	Female	12,011	0.75	0.63	0.15	0.62	5.73
	Male	12,433	0.77	0.67	0.18	0.64	5.63
Ethnicity	Hispanic	1,867	0.74	0.60	0.14	0.65	5.69
	Asian	421	0.77	0.68	0.27	0.61	5.70
	Native Hawaiian/Pacific Islander	34	0.75	0.53	0.42	0.58	5.67
	Black/African American	2,568	0.70	0.54	0.18	0.61	5.85
	American Indian	28	0.70	0.53	0.51	0.62	5.71
	White	18,621	0.75	0.64	0.16	0.61	5.63
	Other	1,073	0.72	0.58	0.15	0.60	5.70
	Missing	--	--	--	--	--	--
Migrant	Non-Migrant	24,515	0.76	0.65	0.16	0.63	5.68
	Migrant	97	0.71	0.56	0.17	0.59	5.60
LEP	Non-LEP	23,368	0.76	0.65	0.17	0.62	5.67
	LEP	1,244	0.64	0.46	0.13	0.55	5.79
Economic Disadvantage	Free Lunch	14,303	0.73	0.61	0.15	0.61	5.72
	Reduced-Price Lunch	968	0.74	0.62	0.21	0.59	5.62
	Regular Lunch	9,341	0.75	0.64	0.16	0.60	5.58
IEP	Non-IEP	21,128	0.75	0.64	0.16	0.61	5.66
	IEP	3,484	0.78	0.65	0.16	0.71	5.71

*Grade 7 Science, operational set #1*

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	23,766	0.80	0.69	0.25	0.71	5.78
Gender	Female	11,654	0.78	0.65	0.22	0.70	5.79
	Male	11,963	0.81	0.71	0.28	0.72	5.72
Ethnicity	Hispanic	1,569	0.77	0.63	0.23	0.69	5.99
	Asian	433	0.85	0.76	0.36	0.79	5.82

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
	Native Hawaiian/Pacific Islander	31	0.81	0.69	0.46	0.60	6.16
	Black/African American	2,333	0.74	0.59	0.26	0.67	6.00
	American Indian	20	0.77	0.64	0.53	0.69	5.80
	White	18,512	0.79	0.68	0.25	0.70	5.71
	Other	864	0.79	0.68	0.24	0.68	5.97
	Missing	4	--	--	--	--	--
Migrant	Non-Migrant	23,683	0.80	0.69	0.25	0.71	5.78
	Migrant	83	0.59	0.37	0.32	0.58	6.36
LEP	Non-LEP	23,192	0.80	0.68	0.25	0.71	5.76
	LEP	574	0.57	0.36	0.24	0.58	6.61
Economic Disadvantage	Free Lunch	12,826	0.75	0.63	0.20	0.66	5.86
	Reduced-Price Lunch	944	0.79	0.67	0.29	0.71	5.69
	Regular Lunch	9,996	0.80	0.69	0.28	0.70	5.68
IEP	Non-IEP	20,963	0.79	0.68	0.25	0.69	5.74
	IEP	2,803	0.71	0.56	0.20	0.68	5.93

*Grade 7 Science, operational set #2*

	Test Group	N	Alpha	MC Alpha	MS Alpha	CR Alpha	SEM
All	Students Tested	23,147	0.79	0.56	0.48	0.75	5.50
Gender	Female	11,499	0.78	0.53	0.45	0.75	5.52
	Male	11,508	0.80	0.58	0.51	0.75	5.44
Ethnicity	Hispanic	1,492	0.76	0.50	0.43	0.73	5.51
	Asian	422	0.82	0.63	0.50	0.77	5.41
	Native Hawaiian/Pacific Islander	27	0.84	0.58	0.70	0.83	5.35
	Black/African American	2,273	0.74	0.41	0.46	0.72	5.69
	American Indian	37	0.76	0.53	0.34	0.71	5.38
	White	18,029	0.79	0.56	0.48	0.74	5.45
	Other	865	0.76	0.47	0.46	0.72	5.73
	Missing	2	--	--	--	--	--
Migrant	Non-Migrant	23,078	0.79	0.56	0.48	0.75	5.50
	Migrant	69	0.73	0.23	0.61	0.70	5.72
LEP	Non-LEP	22,694	0.79	0.56	0.48	0.75	5.50
	LEP	453	0.53	0.21	0.27	0.59	5.61
Economic Disadvantage	Free Lunch	12,502	0.75	0.46	0.43	0.71	5.54
	Reduced-Price Lunch	990	0.78	0.54	0.46	0.73	5.39
	Regular Lunch	9,655	0.80	0.59	0.49	0.74	5.42
IEP	Non-IEP	21,003	0.79	0.56	0.48	0.74	5.49
	IEP	2,144	0.73	0.43	0.39	0.73	5.46



*Grade 5 Social Studies*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	51,155	0.89	0.88	0.65	5.47
Gender	Female	25,113	0.88	0.87	0.65	5.58
	Male	25,693	0.90	0.89	0.64	5.35
Ethnicity	Hispanic	3,719	0.88	0.86	0.63	5.32
	Asian	858	0.91	0.90	0.70	5.70
	Native Hawaiian/Pacific Islander	70	0.88	0.86	0.68	5.38
	Black/African American	5,234	0.88	0.86	0.65	5.21
	American Indian	66	0.91	0.90	0.56	5.50
	White	38,923	0.89	0.88	0.62	5.49
	Other	2,283	0.89	0.87	0.64	5.46
	Missing	2	--	--	--	--
Migrant	Non-Migrant	50,948	0.89	0.88	0.65	5.47
	Migrant	207	0.88	0.86	0.64	5.16
LEP	Non-LEP	49,594	0.89	0.88	0.64	5.47
	LEP	1,561	0.82	0.79	0.56	5.05
Economic Disadvantage	Free Lunch	29,246	0.88	0.87	0.63	5.31
	Reduced-Price Lunch	2,098	0.89	0.87	0.62	5.48
	Regular Lunch	19,811	0.88	0.88	0.61	5.63
IEP	Non-IEP	44,518	0.89	0.87	0.62	5.51
	IEP	6,637	0.89	0.88	0.73	5.27

*Grade 8 Social Studies*

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,290	0.91	0.90	0.70	5.69
Gender	Female	23,686	0.90	0.89	0.68	5.74
	Male	24,281	0.91	0.91	0.71	5.59
Ethnicity	Hispanic	2,931	0.89	0.88	0.71	5.50
	Asian	879	0.92	0.91	0.75	6.14
	Native Hawaiian/Pacific Islander	55	0.90	0.89	0.79	6.00
	Black/African American	4,754	0.89	0.88	0.73	5.48
	American Indian	65	0.91	0.90	0.77	5.59
	White	38,047	0.90	0.90	0.68	5.69
	Other	1,556	0.89	0.89	0.67	5.71
	Missing	3	0.96	0.96	0.96	5.11
Migrant	Non-Migrant	48,125	0.91	0.90	0.70	5.69
	Migrant	165	0.89	0.87	0.72	5.39
LEP	Non-LEP	47,272	0.91	0.90	0.69	5.69
	LEP	1,018	0.81	0.76	0.71	5.36
Economic Disadvantage	Free Lunch	25,593	0.90	0.89	0.69	5.54
	Reduced-Price Lunch	2,004	0.90	0.89	0.68	5.72
	Regular Lunch	20,693	0.90	0.89	0.67	5.83

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
IEP	Non-IEP	43,452	0.90	0.89	0.67	5.72
	IEP	4,838	0.88	0.87	0.72	5.39

## Subdomain (Reporting Category)

### Grade 3 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,101	0.87	0.60	0.65	0.67	0.60
Gender	Female	23,544	0.87	0.59	0.64	0.67	0.59
	Male	24,158	0.87	0.61	0.66	0.68	0.61
Ethnicity	Hispanic	3,584	0.86	0.60	0.62	0.65	0.56
	Asian	809	0.88	0.61	0.66	0.69	0.59
	Native Hawaiian/Pacific Islander	59	0.88	0.71	0.62	0.67	0.56
	Black/African American	4,786	0.87	0.63	0.64	0.64	0.63
	American Indian	45	0.88	0.59	0.65	0.71	0.64
	White	36,579	0.86	0.58	0.64	0.67	0.58
	Other	2,233	0.87	0.62	0.64	0.66	0.60
	Missing	6	--	--	--	--	--
Migrant	Non-Migrant	47,858	0.87	0.60	0.65	0.67	0.60
	Migrant	243	0.84	0.62	0.56	0.56	0.58
LEP	Non-LEP	45,269	0.87	0.60	0.65	0.67	0.60
	LEP	2,832	0.82	0.56	0.54	0.56	0.52
Economic Disadvantage	Free Lunch	28,189	0.86	0.60	0.64	0.65	0.60
	Reduced-Price Lunch	1,893	0.86	0.57	0.62	0.65	0.57
	Regular Lunch	18,019	0.85	0.56	0.62	0.65	0.54
IEP	Non-IEP	40,699	0.86	0.58	0.64	0.66	0.57
	IEP	7,402	0.89	0.63	0.67	0.69	0.66

### Grade 4 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,988	0.84	0.62	0.47	0.58	0.54
Gender	Female	24,179	0.83	0.61	0.45	0.59	0.52
	Male	24,472	0.84	0.63	0.49	0.57	0.56
Ethnicity	Hispanic	3,672	0.82	0.59	0.42	0.55	0.52
	Asian	826	0.85	0.64	0.51	0.60	0.56
	Native Hawaiian/Pacific Islander	72	0.84	0.56	0.50	0.54	0.63
	Black/African American	4,832	0.82	0.61	0.41	0.56	0.54
	American Indian	55	0.84	0.64	0.51	0.38	0.60
	White	37,376	0.83	0.61	0.47	0.58	0.52
	Other	2,155	0.82	0.60	0.43	0.56	0.49
	Missing	--	--	--	--	--	--
Migrant	Non-Migrant	48,788	0.84	0.62	0.47	0.58	0.54
	Migrant	200	0.77	0.54	0.29	0.50	0.43
LEP	Non-LEP	46,604	0.84	0.62	0.47	0.58	0.53
	LEP	2,384	0.76	0.52	0.30	0.47	0.44
Economic	Free Lunch	28,314	0.82	0.60	0.44	0.55	0.53

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
Disadvantage	Reduced-Price Lunch	1,976	0.83	0.59	0.48	0.57	0.52
	Regular Lunch	18,698	0.82	0.59	0.46	0.58	0.49
IEP	Non-IEP	42,078	0.83	0.60	0.46	0.58	0.50
	IEP	6,910	0.85	0.66	0.48	0.57	0.61

*Grade 5 Reading*

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	49,554	0.84	0.62	0.54	0.56	0.60
Gender	Female	24,299	0.84	0.60	0.53	0.54	0.60
	Male	24,917	0.85	0.63	0.56	0.57	0.61
Ethnicity	Hispanic	3,598	0.83	0.62	0.53	0.53	0.55
	Asian	826	0.86	0.65	0.59	0.57	0.63
	Native Hawaiian/Pacific Islander	63	0.81	0.55	0.37	0.38	0.65
	Black/African American	4,952	0.84	0.65	0.49	0.53	0.56
	American Indian	60	0.86	0.67	0.51	0.52	0.67
	White	37,844	0.84	0.60	0.53	0.55	0.60
	Other	2,209	0.83	0.63	0.53	0.54	0.55
	Missing	2	--	--	--	--	--
Migrant	Non-Migrant	49,349	0.84	0.62	0.54	0.56	0.60
	Migrant	205	0.80	0.63	0.45	0.43	0.47
LEP	Non-LEP	48,027	0.84	0.61	0.53	0.55	0.60
	LEP	1,527	0.76	0.56	0.35	0.43	0.37
Economic Disadvantage	Free Lunch	28,233	0.83	0.62	0.51	0.54	0.57
	Reduced-Price Lunch	2,048	0.83	0.60	0.53	0.51	0.59
	Regular Lunch	19,273	0.83	0.56	0.52	0.53	0.58
IEP	Non-IEP	43,003	0.83	0.58	0.52	0.54	0.58
	IEP	6,551	0.86	0.67	0.56	0.59	0.64

**Grade 6 Reading**

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,906	0.88	0.67	0.65	0.66	0.61
Gender	Female	23,783	0.87	0.66	0.64	0.64	0.60
	Male	24,795	0.88	0.68	0.64	0.66	0.62
Ethnicity	Hispanic	3,470	0.87	0.65	0.65	0.65	0.59
	Asian	847	0.89	0.68	0.67	0.68	0.67
	Native Hawaiian/Pacific Islander	55	0.88	0.67	0.68	0.61	0.70
	Black/African American	4,761	0.87	0.62	0.66	0.66	0.57
	American Indian	72	0.87	0.62	0.54	0.73	0.53
	White	37,713	0.87	0.67	0.63	0.64	0.59
	Other	1,987	0.87	0.65	0.64	0.65	0.61
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	48,717	0.88	0.67	0.65	0.66	0.61
	Migrant	189	0.83	0.49	0.66	0.59	0.50
LEP	Non-LEP	47,791	0.87	0.67	0.64	0.65	0.60
	LEP	1,115	0.76	0.38	0.51	0.49	0.40
Economic Disadvantage	Free Lunch	27,302	0.87	0.64	0.63	0.64	0.59
	Reduced-Price Lunch	2,005	0.87	0.66	0.63	0.64	0.58
	Regular Lunch	19,599	0.86	0.66	0.61	0.62	0.57
IEP	Non-IEP	43,252	0.87	0.66	0.62	0.64	0.58
	IEP	5,654	0.87	0.62	0.62	0.66	0.62

**Grade 7 Reading**

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	47,188	0.86	0.61	0.66	0.49	0.63
Gender	Female	23,159	0.85	0.61	0.65	0.48	0.62
	Male	23,727	0.86	0.61	0.65	0.50	0.64
Ethnicity	Hispanic	3,053	0.85	0.61	0.63	0.49	0.58
	Asian	851	0.87	0.65	0.69	0.48	0.64
	Native Hawaiian/Pacific Islander	57	0.85	0.61	0.76	0.29	0.47
	Black/African American	4,642	0.86	0.62	0.65	0.51	0.61
	American Indian	61	0.88	0.61	0.69	0.56	0.65
	White	36,771	0.85	0.59	0.64	0.48	0.62
	Other	1,747	0.85	0.59	0.64	0.49	0.61
	Missing	6	--	--	--	--	--
Migrant	Non-Migrant	47,033	0.86	0.61	0.66	0.49	0.63
	Migrant	155	0.83	0.60	0.62	0.47	0.41
LEP	Non-LEP	46,173	0.86	0.60	0.65	0.49	0.62
	LEP	1,015	0.75	0.46	0.48	0.41	0.35
Economic Disadvantage	Free Lunch	25,491	0.85	0.60	0.63	0.48	0.61
	Reduced-Price Lunch	1,959	0.85	0.59	0.63	0.48	0.62
	Regular Lunch	19,738	0.84	0.56	0.62	0.45	0.59

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
IEP	Non-IEP	42,177	0.84	0.58	0.63	0.46	0.60
	IEP	5,011	0.86	0.61	0.63	0.48	0.64

### *Grade 8 Reading*

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,202	0.87	0.70	0.64	0.48	0.65
Gender	Female	23,668	0.86	0.67	0.62	0.46	0.64
	Male	24,215	0.87	0.71	0.65	0.48	0.65
Ethnicity	Hispanic	2,915	0.86	0.68	0.63	0.43	0.62
	Asian	872	0.89	0.71	0.71	0.51	0.72
	Native Hawaiian/Pacific Islander	54	0.87	0.62	0.68	0.44	0.63
	Black/African American	4,752	0.86	0.70	0.63	0.40	0.62
	American Indian	64	0.84	0.68	0.50	0.41	0.58
	White	37,968	0.86	0.69	0.63	0.47	0.64
	Other	1,575	0.87	0.69	0.63	0.46	0.65
	Missing	2	--	--	--	--	--
Migrant	Non-Migrant	48,037	0.87	0.70	0.64	0.48	0.65
	Migrant	165	0.86	0.67	0.66	0.39	0.66
LEP	Non-LEP	47,192	0.87	0.69	0.64	0.48	0.64
	LEP	1,010	0.76	0.57	0.56	0.19	0.32
Economic Disadvantage	Free Lunch	25,546	0.86	0.70	0.62	0.44	0.63
	Reduced-Price Lunch	1,986	0.86	0.67	0.59	0.46	0.63
	Regular Lunch	20,670	0.85	0.65	0.62	0.47	0.61
IEP	Non-IEP	43,373	0.86	0.67	0.62	0.46	0.63
	IEP	4,829	0.85	0.67	0.61	0.39	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	48,413	0.91	0.72	0.74	0.75	0.70
Gender	Female	23,704	0.90	0.70	0.74	0.73	0.69
	Male	24,323	0.91	0.73	0.74	0.76	0.71
Ethnicity	Hispanic	3,579	0.90	0.70	0.73	0.73	0.68
	Asian	804	0.92	0.73	0.79	0.78	0.74
	Native Hawaiian/Pacific Islander	60	0.91	0.77	0.75	0.73	0.73
	Black/African American	4,851	0.90	0.72	0.72	0.72	0.66
	American Indian	48	0.91	0.72	0.76	0.75	0.71
	White	36,794	0.90	0.71	0.73	0.74	0.69

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
	Other	2,271	0.90	0.71	0.73	0.73	0.69
	Missing	6	--	--	--	--	--
Migrant	Non-Migrant	48,174	0.91	0.72	0.74	0.75	0.70
	Migrant	239	0.90	0.70	0.73	0.70	0.65
LEP	Non-LEP	45,622	0.91	0.72	0.74	0.75	0.70
	LEP	2,791	0.89	0.70	0.72	0.71	0.65
Economic Disadvantage	Free Lunch	28,396	0.90	0.70	0.72	0.73	0.67
	Reduced-Price Lunch	1,894	0.90	0.69	0.73	0.74	0.67
	Regular Lunch	18,123	0.90	0.69	0.73	0.74	0.68
IEP	Non-IEP	41,196	0.90	0.70	0.73	0.73	0.68
	IEP	7,217	0.91	0.73	0.74	0.76	0.72

### *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	49,747	0.90	0.64	0.73	0.73	0.74
Gender	Female	24,351	0.90	0.63	0.72	0.71	0.72
	Male	25,041	0.91	0.65	0.74	0.75	0.76
Ethnicity	Hispanic	3,770	0.89	0.59	0.71	0.71	0.70
	Asian	830	0.92	0.66	0.75	0.76	0.79
	Native Hawaiian/Pacific Islander	77	0.92	0.68	0.82	0.74	0.77
	Black/African American	5,078	0.88	0.59	0.70	0.70	0.66
	American Indian	54	0.87	0.59	0.66	0.70	0.65
	White	37,729	0.90	0.63	0.73	0.72	0.74
	Other	2,208	0.90	0.62	0.72	0.70	0.73
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	49,536	0.90	0.64	0.73	0.73	0.74
	Migrant	211	0.87	0.55	0.73	0.62	0.64
LEP	Non-LEP	47,263	0.90	0.64	0.73	0.73	0.74
	LEP	2,484	0.86	0.54	0.69	0.66	0.62
Economic Disadvantage	Free Lunch	28,912	0.89	0.61	0.71	0.70	0.70
	Reduced-Price Lunch	1,979	0.89	0.61	0.71	0.72	0.72
	Regular Lunch	18,856	0.90	0.62	0.73	0.73	0.75
IEP	Non-IEP	42,562	0.90	0.62	0.73	0.72	0.73
	IEP	7,185	0.90	0.67	0.73	0.72	0.73

**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	50,044	0.91	0.71	0.75	0.72	0.75
Gender	Female	24,615	0.91	0.70	0.74	0.70	0.73
	Male	25,089	0.92	0.72	0.76	0.73	0.76
Ethnicity	Hispanic	3,610	0.90	0.69	0.73	0.67	0.73
	Asian	844	0.92	0.74	0.77	0.77	0.76
	Native Hawaiian/Pacific Islander	69	0.92	0.71	0.77	0.74	0.78
	Black/African American	5,094	0.89	0.69	0.72	0.60	0.69
	American Indian	62	0.92	0.72	0.77	0.74	0.81
	White	38,142	0.91	0.71	0.75	0.72	0.74
	Other	2,221	0.91	0.71	0.75	0.70	0.72
	Missing	2	--	--	--	--	--
Migrant	Non-Migrant	49,839	0.91	0.71	0.75	0.72	0.75
	Migrant	205	0.89	0.72	0.66	0.58	0.72
LEP	Non-LEP	48,471	0.91	0.71	0.75	0.72	0.74
	LEP	1,573	0.86	0.65	0.68	0.51	0.65
Economic Disadvantage	Free Lunch	28,485	0.90	0.69	0.73	0.66	0.72
	Reduced-Price Lunch	2,063	0.91	0.69	0.73	0.72	0.73
	Regular Lunch	19,496	0.91	0.70	0.74	0.73	0.74
IEP	Non-IEP	43,474	0.91	0.70	0.74	0.72	0.73
	IEP	6,570	0.90	0.71	0.72	0.63	0.74

**Grade 6 Mathematics**

	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
All	Students Tested	48,414	0.91	0.66	0.61	0.71	0.75	0.62
Gender	Female	23,629	0.90	0.66	0.61	0.70	0.74	0.61
	Male	24,462	0.91	0.66	0.61	0.72	0.76	0.63
Ethnicity	Hispanic	3,412	0.89	0.63	0.59	0.65	0.71	0.59
	Asian	848	0.93	0.71	0.64	0.78	0.81	0.67
	Native Hawaiian/Pacific Islander	56	0.89	0.73	0.48	0.59	0.68	0.68
	Black/African American	4,704	0.88	0.61	0.60	0.60	0.62	0.57
	American Indian	72	0.90	0.68	0.59	0.74	0.72	0.55
	White	37,382	0.91	0.65	0.60	0.71	0.75	0.61
	Other	1,939	0.90	0.64	0.59	0.70	0.71	0.60
	Missing	1	--	--	--	--	--	--



	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
Migrant	Non-Migrant	48,232	0.91	0.66	0.61	0.71	0.75	0.62
	Migrant	182	0.85	0.57	0.54	0.58	0.60	0.45
LEP	Non-LEP	47,319	0.91	0.66	0.60	0.71	0.75	0.62
	LEP	1,095	0.82	0.54	0.50	0.51	0.53	0.41
Economic Disadvantage	Free Lunch	26,970	0.89	0.63	0.59	0.65	0.69	0.58
	Reduced-Price Lunch	1,995	0.90	0.63	0.59	0.70	0.73	0.59
	Regular Lunch	19,449	0.91	0.65	0.58	0.73	0.77	0.60
IEP	Non-IEP	42,851	0.90	0.64	0.60	0.71	0.75	0.60
	IEP	5,563	0.88	0.62	0.59	0.63	0.64	0.57

*Grade 7 Mathematics*

	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
All	Students Tested	47,871	0.90	0.68	0.66	0.62	0.64	0.67
Gender	Female	23,473	0.90	0.67	0.66	0.59	0.64	0.64
	Male	24,107	0.91	0.68	0.66	0.64	0.65	0.69
Ethnicity	Hispanic	3,106	0.88	0.62	0.60	0.59	0.59	0.62
	Asian	871	0.92	0.73	0.74	0.64	0.69	0.75
	Native Hawaiian/Pacific Islander	58	0.91	0.71	0.62	0.64	0.63	0.64
	Black/African American	4,811	0.87	0.59	0.55	0.58	0.54	0.61
	American Indian	61	0.91	0.71	0.72	0.63	0.58	0.71
	White	37,157	0.90	0.67	0.66	0.61	0.64	0.66
	Other	1,800	0.89	0.66	0.65	0.61	0.60	0.64
	Missing	7	--	--	--	--	--	--
Migrant	Non-Migrant	47,711	0.90	0.68	0.66	0.62	0.64	0.67
	Migrant	160	0.84	0.64	0.50	0.54	0.44	0.47
LEP	Non-LEP	46,801	0.90	0.67	0.66	0.62	0.64	0.66
	LEP	1,070	0.80	0.47	0.38	0.54	0.40	0.44
Economic Disadvantage	Free Lunch	25,982	0.88	0.62	0.60	0.59	0.58	0.62
	Reduced-Price Lunch	1,978	0.90	0.67	0.66	0.61	0.63	0.66
	Regular Lunch	19,911	0.90	0.68	0.67	0.61	0.65	0.66
IEP	Non-IEP	42,749	0.90	0.67	0.66	0.61	0.63	0.65
	IEP	5,122	0.87	0.58	0.60	0.60	0.55	0.59

**Grade 8 Mathematics**

	Test Group	N	Alpha	The Number System and Expressions & Equations	Functions	Geometry	Statistics and Probability
All	Students Tested	45,920	0.90	0.77	0.62	0.76	0.61
Gender	Female	22,771	0.90	0.76	0.60	0.74	0.59
	Male	22,859	0.91	0.78	0.63	0.77	0.64
Ethnicity	Hispanic	2,667	0.88	0.73	0.56	0.71	0.55
	Asian	850	0.92	0.81	0.68	0.80	0.65
	Native Hawaiian/Pacific Islander	51	0.89	0.69	0.60	0.77	0.55
	Black/African American	4,385	0.87	0.71	0.55	0.69	0.56
	American Indian	61	0.88	0.68	0.58	0.69	0.65
	White	36,418	0.90	0.77	0.61	0.75	0.60
	Other	1,486	0.90	0.76	0.60	0.74	0.59
	Missing	2	--	--	--	--	--
Migrant	Non-Migrant	45,761	0.90	0.77	0.62	0.76	0.61
	Migrant	159	0.86	0.68	0.51	0.71	0.54
LEP	Non-LEP	44,982	0.90	0.77	0.61	0.76	0.61
	LEP	938	0.83	0.62	0.42	0.64	0.45
Economic Disadvantage	Free Lunch	24,063	0.88	0.73	0.56	0.72	0.57
	Reduced-Price Lunch	1,898	0.89	0.76	0.58	0.74	0.57
	Regular Lunch	19,959	0.90	0.77	0.62	0.75	0.59
IEP	Non-IEP	41,406	0.90	0.77	0.60	0.74	0.60
	IEP	4,514	0.87	0.70	0.51	0.71	0.53

**Grade 5 Social Studies**

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
All	Students Tested	51,155	0.89	0.67	0.56	0.66	0.50	0.72
Gender	Female	25,113	0.88	0.66	0.55	0.64	0.46	0.68
	Male	25,693	0.90	0.68	0.57	0.67	0.53	0.75
Ethnicity	Hispanic	3,719	0.88	0.64	0.53	0.65	0.47	0.68
	Asian	858	0.91	0.70	0.58	0.68	0.56	0.79
	Native Hawaiian/Pacific Islander	70	0.88	0.67	0.58	0.67	0.36	0.68
	Black/African American	5,234	0.88	0.62	0.55	0.65	0.47	0.68
	American Indian	66	0.91	0.71	0.63	0.64	0.68	0.73
	White	38,923	0.89	0.66	0.55	0.64	0.48	0.72
	Other	2,283	0.89	0.66	0.55	0.65	0.47	0.71
	Missing	2	--	--	--	--	--	--

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
Migrant	Non-Migrant	50,948	0.89	0.67	0.56	0.66	0.50	0.72
	Migrant	207	0.88	0.65	0.51	0.64	0.40	0.69
LEP	Non-LEP	49,594	0.89	0.67	0.55	0.65	0.49	0.72
	LEP	1,561	0.82	0.49	0.45	0.52	0.42	0.57
Economic Disadvantage	Free Lunch	29,246	0.88	0.64	0.55	0.65	0.47	0.69
	Reduced-Price Lunch	2,098	0.89	0.65	0.54	0.63	0.51	0.70
	Regular Lunch	19,811	0.88	0.66	0.51	0.61	0.47	0.72
IEP	Non-IEP	44,518	0.89	0.66	0.53	0.63	0.47	0.71
	IEP	6,637	0.89	0.63	0.59	0.67	0.54	0.70

***Grade 8 Social Studies***

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
All	Students Tested	48,290	0.91	0.70	0.59	0.60	0.60	0.76
Gender	Female	23,686	0.90	0.68	0.56	0.58	0.58	0.74
	Male	24,281	0.91	0.72	0.62	0.62	0.61	0.78
Ethnicity	Hispanic	2,931	0.89	0.62	0.57	0.58	0.56	0.72
	Asian	879	0.92	0.71	0.61	0.64	0.63	0.77
	Native Hawaiian/Pacific Islander	55	0.90	0.56	0.64	0.59	0.55	0.73
	Black/African American	4,754	0.89	0.63	0.57	0.59	0.57	0.70
	American Indian	65	0.91	0.66	0.62	0.65	0.57	0.75
	White	38,047	0.90	0.70	0.57	0.58	0.58	0.76
	Other	1,556	0.89	0.67	0.56	0.58	0.58	0.72
	Missing	3	--	--	--	--	--	--
Migrant	Non-Migrant	48,125	0.91	0.70	0.59	0.60	0.60	0.76
	Migrant	165	0.89	0.56	0.55	0.53	0.55	0.75
LEP	Non-LEP	47,272	0.91	0.70	0.58	0.59	0.59	0.76
	LEP	1,018	0.81	0.43	0.42	0.41	0.44	0.52
Economic Disadvantage	Free Lunch	25,593	0.90	0.66	0.57	0.58	0.57	0.73
	Reduced-Price Lunch	2,004	0.90	0.69	0.56	0.57	0.56	0.75
	Regular Lunch	20,693	0.90	0.69	0.54	0.55	0.55	0.75
IEP	Non-IEP	43,452	0.90	0.69	0.55	0.57	0.57	0.75
	IEP	4,838	0.88	0.61	0.54	0.55	0.57	0.70

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

Subject	Grade	Item Type	Validity <sup>11</sup>		Reliability		Score Distribution										
			Perfect	Non-Adj	Perfect	Non-Adj	0	1	2	3	4	B	A	F	I	O	
Reading	3	SA	97 97	0 0	86 83	1 0	21 23	38 41	40 35	-	-	1 1	0	0	0	0	
		SA	97 87	0 0	84 78	0 0	17 22	50 50	29 26	-	-	5 2	0	0	0	0	
	4	SA	95 --	0 --	84 --	3 --	42 -	33 -	22 -	-	-	1	0	0	0	2	
		ER	95 92	0 0	80 75	4 0	29 33	9 13	31 28	13 12	14 12	2 1	0	0	0	1 1	
		SA	89 92	0 0	77 75	1 0	19 22	40 42	40 35	-	-	1 1	0	0	0	1 0	
	5	SA	95 93	0 0	81 75	1 0	32 26	44 46	24 27	-	-	1 1	0	0	0	0	
		ER	80 82	2 3	68 64	8 8	19 21	16 16	40 42	13 12	7 8	2 1	0	0	0	3 0	
		SA	95 91	0 0	80 76	0 0	9 6	49 63	42 31	-	-	1 1	0	0	0	0	
	6	SA	91 90	0 0	81 80	0 0	35 32	32 40	33 27	-	-	0 1	0	0	0	0	
		ER	89 87	1 2	74 67	0 6	30 33	23 31	24 21	11 8	11 6	1 1	0	0	0	0	
		SA	92 --	0 --	83 --	0 --	31 -	44 -	23 -	-	-	2 -	0	0	0	0	
	7	SA	94 90	0 0	86 80	0 0	15 21	70 59	12 19	-	-	1 1	0	0	0	2 0	
		ER	71 --	3 --	65 --	1 --	7 -	11 -	21 -	35 -	25 -	1 -	0	0	0	0	
		SA	95 88	0 0	83 81	0 0	12 10	55 55	31 34	-	-	2 1	0	0	0	0	
	8	SA	98 --	0 --	84 --	1 --	21 -	31 -	47 -	-	-	1 -	0	0	0	0	
		ER	86 --	0 --	65 --	1 --	18 -	16 -	30 -	24 -	11 -	1 -	0	0	0	0	
		SA	98 --	0 --	85 --	1 --	10 -	53 -	36 -	-	-	1 -	0	0	0	0	
	Mathematics	3	SA	98 95	0 0	95 93	0 0	38 41	11 11	49 45	-	-	2 3	0	0	0	0
			SA	97 95	0 0	90 89	0 0	22 22	68 68	8 9	-	-	2 1	0	0	0	0
			SA	97 93	0 0	94 85	0 0	20 19	31 32	47 48	-	-	1 1	0	0	0	0
		4	SA	98 97	0 0	94 92	0 0	42 43	28 26	28 30	-	-	1 1	0	0	0	0
SA			94	0	87	1	25	44	30	-	-	1	0	0	0	0	

<sup>11</sup> Validity statistics (highlighted in blue) are captured for items' most recent *operational* use.

			96	0	85	0	22	48	29			1				
		ER	90	1	81	3	16	39	20	6	17	2	0	0	0	0
			91	1	80	0	12	40	21	6	19	2				
		SA	98	0	95	0	65	16	18	-	-	2	0	0	0	0
			97	0	95	0	55	15	29			1				
	5	SA	97	0	84	1	55	22	22	-	-	1	0	0	0	0
			96	1	86	0	58	18	23			1				
		SA	98	0	86	0	38	39	22	-	-	1	0	0	0	0
			91	0	80	0	32	40	27			1				
		ER	91	0	85	1	12	60	13	8	3	3	0	0	0	0
			89	0	85	0	9	61	15	9	5	1				
		SA	96	0	85	0	36	36	27	-	-	1	0	0	0	0
			94	0	87	0	35	29	35			1				
	6	SA	98	0	93	0	12	39	48	-	-	1	0	0	0	0
			97	0	91	0	11	39	49			1				
		SA	98	0	95	0	23	63	12	-	-	1	0	0	0	1
			97	0	94	0	27	57	15			1				0
		ER	88	1	74	2	34	26	18	11	9	2	0	0	0	0
			86	0	70	2	34	28	15	12	9	2				
		SA	96	0	89	0	36	41	22	-	-	1	0	0	0	0
			92	0	87	0	39	37	23			1				
	7	SA	98	0	91	0	37	50	11	-	-	2	0	0	0	0
			95	0	90	0	37	51	11			1				
		SA	90	1	82	1	39	22	37	-	-	2	0	0	0	0
			88	1	81	2	40	17	42			1				
		ER	90	0	86	0	38	14	22	19	6	1	0	0	0	0
			--	--	--	--	-	-	-	-	-	-				
		SA	94	0	93	0	68	15	17	-	-	1	0	0	0	0
		97	0	94	0	65	13	21			1					
8	SA	96	0	90	0	36	25	38	-	-	1	0	0	0	0	
		94	0	93	0	39	21	39			1					
	SA	95	0	89	1	73	13	13	-	-	1	0	0	0	0	
		94	0	86	0	72	14	13			1					
	ER	92	0	78	1	10	35	20	20	13	2	0	0	0	0	
		88	0	72	0	10	36	19	19	15	1					
	SA	96	0	87	1	35	24	37	-	-	1	0	0	0	3	
		93	0	82	2	38	25	36			1				0	
Science	4	ER	82	0	66	3	8	25	39	20	6	1	0	0	0	0
			--	--	--	--	-	-	-	-	-	-				
		ER	85	3	72	2	45	40	8	3	3	1	0	0	0	0
			--	--	--	--	-	-	-	-	-	-				
		ER	82	0	69	3	31	26	23	15	3	2	0	0	0	1
			--	--	--	--	-	-	-	-	-	-				
		ER	85	0	73	1	16	47	24	9	3	1	0	0	0	0
		--	--	--	--	-	-	-	-	-	-					
		ER	87	1	70	2	28	21	24	19	7	1	0	0	0	0
			--	--	--	--	-	-	-	-	-	-				
		ER	86	1	70	1	27	44	22	4	1	2	0	0	0	0
			--	--	--	--	-	-	-	-	-	-				
	ER	88	1	66	5	32	27	24	12	3	1	0	0	0	0	
		--	--	--	--	-	-	-	-	-	-					
7	ER	85	1	68	1	38	31	18	10	2	1	0	0	0	0	
		--	--	--	--	-	-	-	-	-	-					
	ER	83	1	69	1	46	32	13	5	1	2	0	0	0	1	
		--	--	--	--	-	-	-	-	-	-				-	

		ER	80 --	0 --	68 --	1 --	21 -	23 -	34 -	14 -	6 -	1 -	0	0	0	0
		ER	88 --	0 --	67 --	2 --	33 -	26 -	24 -	12 -	4 -	2 -	0	0	0	0
		ER	81 --	1 --	74 --	1 --	56 -	25 -	10 -	4 -	1 -	2 -	0	0	0	1 -
		ER	81 --	1 --	66 --	0 --	29 -	41 -	21 -	6 -	1 -	2 -	0	0	0	0
		ER	84 --	1 --	69 --	0 --	27 -	33 -	26 -	10 -	3 -	1 -	0	0	0	0
<b>Social Studies</b>	5	ER	84 76	1 0	67 66	1 0	21 15	39 31	28 34	10 15	2 4	0 1	0	0	0	0
		ER	81 74	1 0	65 67	2 0	13 10	17 13	37 38	26 30	6 8	1 1	0	0	0	0
		ER	80 83	1 1	67 63	2 2	24 14	37 36	29 35	9 12	2 2	1 1	0	0	0	0
	8	ER	84 79	1 0	70 70	0 0	4 5	6 6	48 57	31 23	11 8	1 1	0	0	0	0
		ER	80 82	2 0	71 63	0 0	6 5	7 12	37 44	34 27	15 10	1 2	0	0	0	0
		ER	82 78	1 0	70 67	0 0	5 5	9 8	40 37	28 37	17 12	1 1	0	0	0	0
<b>On Demand Writing</b>	5	Prompt	88 79	0 0	69 65	1 0	- 15	16 47	49 32	30 5	4 1	1 1	0	0	0	1 0
		Prompt	86 82	0 0	67 65	1 0	- 8	9 51	51 37	35 4	5 4	0 1	0	0	0	0
		Prompt	87 81	0 1	65 63	2 2	- 19	19 48	46 29	29 26	4 5	1 1	0	0	0	1 1
	8	Prompt	87 85	0 0	67 65	1 2	- 12	11 37	35 38	40 13	13 12	1 1	0	0	0	1 0
		Prompt	84 82	0 0	67 66	1 0	- 10	10 37	34 42	43 11	13 11	0 1	0	0	0	0
		Prompt	84 82	0 0	68 65	1 2	- 17	14 39	39 35	37 8	9 1	1 1	0	0	0	0
	11	Prompt	89 85	0 0	72 65	0 0	- 6	15 35	44 49	33 9	5 9	3 1	0	0	0	1 0
		Prompt	83 80	0 0	68 67	0 0	- 14	6 49	33 33	51 4	10 4	0 0	0	0	0	0
		Prompt	84 86	0 0	68 65	1 2	- 15	17 40	40 36	34 7	7 1	2 1	0	0	0	1 0

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

Prompt Type	Grade	Final Prompt Score								Condition Code					Rater Agreement		
		0	2	3	4	5	6	7	8	A	B	F	I	O	Perfect	Adjacent	Non-Adjacent
Passage-Based	5	2%	14%	11%	32%	18%	18%	4%	2%	27	142	1	19	594	65%	33%	2%
	8	1%	10%	8%	27%	16%	25%	8%	4%	11	230	2	1	158	68%	32%	1%
	11	3%	12%	9%	28%	16%	23%	7%	3%	28	724	0	16	406	68%	31%	1%
Choice	5	1%	9%	6%	37%	19%	21%	5%	1%	11	95	1	8	158	68%	31%	1%
	8	1%	8%	5%	24%	16%	28%	12%	7%	10	162	3	2	106	67%	32%	1%
	11	1%	6%	5%	26%	16%	32%	9%	4%	8	502	0	3	135	69%	30%	0%

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

## Appendix P. Accuracy and Consistency<sup>12</sup>

### Reading

**Table 1. Accuracy Classification for Reading Grade 3**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.19057	0.03884	0.00182	0.00001	71.29
Apprentice	0.04779	0.14101	0.05681	0.00047	
Proficient	0.00214	0.05523	0.21875	0.05250	
Distinguished	0.00000	0.00022	0.03125	0.16259	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.19057	0.03884	0.00182	0.00001	88.33
Apprentice	0.04779	0.14101	0.05681	0.00047	
Proficient	0.00214	0.05523	0.21875	0.05250	
Distinguished	0.00000	0.00022	0.03125	0.16259	

**Table 3. Consistency Classification for Reading Grade 3**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.17936	0.05673	0.01011	0.00011	61.77	0.49
Apprentice	0.05185	0.10724	0.06834	0.00363		
Proficient	0.00920	0.06798	0.17689	0.05764		
Distinguished	0.00009	0.00334	0.05328	0.15420		

**Table 4. Accuracy Classification for Reading Grade 4**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13494	0.03102	0.00070	0.00002	71.09
Apprentice	0.04974	0.18088	0.06248	0.00017	
Proficient	0.00121	0.06383	0.29001	0.05258	
Distinguished	0.00000	0.00007	0.02724	0.10511	

<sup>12</sup> 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	0.13494	0.03102	0.00070	0.00002	87.15
Apprentice	0.04974	0.18088	0.06248	0.00017	
Proficient	0.00121	0.06383	0.29001	0.05258	
Distinguished	0.00000	0.00007	0.02724	0.10511	

**Table 6. Consistency Classification for Reading Grade 4**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12768	0.05208	0.00662	0.00002	60.89	0.46
Apprentice	0.05174	0.14155	0.08179	0.00220		
Proficient	0.00644	0.08012	0.23944	0.05548		
Distinguished	0.00002	0.00204	0.05259	0.10018		

**Table 7. Accuracy Classification for Reading Grade 5**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13560	0.02941	0.00122	0.00001	69.99
Apprentice	0.04641	0.14222	0.05901	0.00034	
Proficient	0.00216	0.06387	0.28429	0.05807	
Distinguished	0.00000	0.00022	0.03942	0.13774	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13560	0.02941	0.00122	0.00001	87.32
Apprentice	0.04641	0.14222	0.05901	0.00034	
Proficient	0.00216	0.06387	0.28429	0.05807	
Distinguished	0.00000	0.00022	0.03942	0.13774	

**Table 9. Consistency Classification for Reading Grade 5**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12853	0.04782	0.00901	0.00007	59.66	0.44
Apprentice	0.04707	0.10978	0.07796	0.00341		
Proficient	0.00849	0.07462	0.22899	0.06337		
Distinguished	0.00007	0.00350	0.06798	0.12931		

**Table 10. Accuracy Classification for Reading Grade 6**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15755	0.02433	0.00067	0.00002	74.65
Apprentice	0.04259	0.12409	0.04743	0.00004	
Proficient	0.00131	0.05043	0.31705	0.05348	
Distinguished	0.00000	0.00002	0.03321	0.14778	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15755	0.02433	0.00067	0.00002	90.01
Apprentice	0.04259	0.12409	0.04743	0.00004	
Proficient	0.00131	0.05043	0.31705	0.05348	
Distinguished	0.00000	0.00002	0.03321	0.14778	

**Table 12. Consistency Classification for Reading Grade 6**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.14966	0.03885	0.00564	0.00001	65.52	0.52
Apprentice	0.04564	0.09779	0.06620	0.00097		
Proficient	0.00614	0.06140	0.26918	0.06174		
Distinguished	0.00001	0.00084	0.05734	0.13859		

**Table 13. Accuracy Classification for Reading Grade 7**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15660	0.02885	0.00108	0.00002	71.41
Apprentice	0.04186	0.13039	0.04886	0.00013	
Proficient	0.00201	0.06256	0.30590	0.06079	
Distinguished	0.00000	0.00009	0.03967	0.12118	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15660	0.02885	0.00108	0.00002	88.52
Apprentice	0.04186	0.13039	0.04886	0.00013	
Proficient	0.00201	0.06256	0.30590	0.06079	
Distinguished	0.00000	0.00009	0.03967	0.12118	

**Table 15. Consistency Classification for Reading Grade 7**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.14885	0.04526	0.00755	0.00003	61.46	0.46
Apprentice	0.04375	0.10157	0.06781	0.00205		
Proficient	0.00784	0.07285	0.25209	0.06794		
Distinguished	0.00003	0.00221	0.06805	0.11209		

**Table 16. Accuracy Classification for Reading Grade 8**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13375	0.02450	0.00086	0.00002	72.16
Apprentice	0.03407	0.11424	0.04255	0.00022	
Proficient	0.00167	0.05744	0.26471	0.06354	
Distinguished	0.00000	0.00026	0.05327	0.20893	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13375	0.02450	0.00086	0.00002	89.7
Apprentice	0.03407	0.11424	0.04255	0.00022	
Proficient	0.00167	0.05744	0.26471	0.06354	
Distinguished	0.00000	0.00026	0.05327	0.20893	

**Table 18. Consistency Classification for Reading Grade 8**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12759	0.03888	0.00639	0.00005	62.42	0.48
Apprentice	0.03562	0.08982	0.06076	0.00299		
Proficient	0.00623	0.06458	0.21595	0.07884		
Distinguished	0.00005	0.00316	0.07827	0.19082		

## Mathematics

**Table 19. Accuracy Classification for Mathematics Grade 3**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.14345	0.03919	0.00007	0.00000	78.32
Apprentice	0.04132	0.25644	0.05089	0.00000	
Proficient	0.00006	0.04365	0.28019	0.02418	
Distinguished	0.00000	0.00000	0.01748	0.10307	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.14345	0.03919	0.00007	0.00000	90.53
Apprentice	0.04132	0.25644	0.05089	0.00000	
Proficient	0.00006	0.04365	0.28019	0.02418	
Distinguished	0.00000	0.00000	0.01748	0.10307	

**Table 21. Consistency Classification for Mathematics Grade 3**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.13253	0.06020	0.00148	0.00000	69.63	0.58
Apprentice	0.05108	0.21481	0.06586	0.00010		
Proficient	0.00122	0.06418	0.25027	0.02843		
Distinguished	0.00000	0.00010	0.03103	0.09872		

**Table 22. Accuracy Classification for Mathematics Grade 4**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16312	0.03966	0.00016	0.00000	76.15
Apprentice	0.05061	0.22934	0.05391	0.00003	
Proficient	0.00015	0.04251	0.23673	0.03020	
Distinguished	0.00000	0.00001	0.02124	0.13235	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16312	0.03966	0.00016	0.00000	90.33
Apprentice	0.05061	0.22934	0.05391	0.00003	
Proficient	0.00015	0.04251	0.23673	0.03020	
Distinguished	0.00000	0.00001	0.02124	0.13235	

**Table 24. Consistency Classification for Mathematics Grade 4**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.14978	0.06013	0.00236	0.00000	67.01	0.55
Apprentice	0.06188	0.18880	0.06803	0.00054		
Proficient	0.00222	0.06207	0.20476	0.03532		
Distinguished	0.00000	0.00052	0.03689	0.12671		

**Table 25. Accuracy Classification for Mathematics Grade 5**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12141	0.02985	0.00004	0.00000	77.56
Apprentice	0.04257	0.24058	0.05054	0.00003	
Proficient	0.00005	0.04229	0.24320	0.03468	
Distinguished	0.00000	0.00001	0.02431	0.17043	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12141	0.02985	0.00004	0.00000	90.7
Apprentice	0.04257	0.24058	0.05054	0.00003	
Proficient	0.00005	0.04229	0.24320	0.03468	
Distinguished	0.00000	0.00001	0.02431	0.17043	

**Table 27. Consistency Classification for Mathematics Grade 5**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.11253	0.04887	0.00115	0.00000	68.8	0.57
Apprentice	0.05043	0.20274	0.06652	0.00062		
Proficient	0.00108	0.06056	0.20957	0.04139		
Distinguished	0.00000	0.00056	0.04086	0.16313		

**Table 28. Accuracy Classification for Mathematics Grade 6**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.08134	0.03231	0.00001	0.00000	79.36
Apprentice	0.03312	0.32852	0.04988	0.00000	
Proficient	0.00001	0.04700	0.27019	0.02597	
Distinguished	0.00000	0.00000	0.01814	0.11351	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.08134	0.03231	0.00001	0.00000	90.31
Apprentice	0.03312	0.32852	0.04988	0.00000	
Proficient	0.00001	0.04700	0.27019	0.02597	
Distinguished	0.00000	0.00000	0.01814	0.11351	

**Table 30. Consistency Classification for Mathematics Grade 6**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.07521	0.05485	0.00051	0.00000	70.73	0.58
Apprentice	0.03888	0.28336	0.06575	0.00014		
Proficient	0.00038	0.06946	0.24007	0.03067		
Distinguished	0.00000	0.00015	0.03190	0.10868		

**Table 31. Accuracy Classification for Mathematics Grade 7**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10086	0.03215	0.00003	0.00000	78.1
Apprentice	0.03729	0.30024	0.05047	0.00000	
Proficient	0.00003	0.05153	0.27244	0.02903	
Distinguished	0.00000	0.00000	0.01847	0.10746	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10086	0.03215	0.00003	0.00000	89.79
Apprentice	0.03729	0.30024	0.05047	0.00000	
Proficient	0.00003	0.05153	0.27244	0.02903	
Distinguished	0.00000	0.00000	0.01847	0.10746	

**Table 33. Consistency Classification for Mathematics Grade 7**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.09412	0.05483	0.00090	0.00000	69.15	0.56
Apprentice	0.04327	0.25453	0.06697	0.00021		
Proficient	0.00079	0.07432	0.24022	0.03365		
Distinguished	0.00000	0.00023	0.03330	0.10264		

**Table 34. Accuracy Classification for Mathematics Grade 8**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12631	0.03231	0.00003	0.00000	78.39
Apprentice	0.04076	0.28711	0.05059	0.00001	
Proficient	0.00003	0.04872	0.27896	0.02748	
Distinguished	0.00000	0.00000	0.01618	0.09152	

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12631	0.03231	0.00003	0.00000	90.06
Apprentice	0.04076	0.28711	0.05059	0.00001	
Proficient	0.00003	0.04872	0.27896	0.02748	
Distinguished	0.00000	0.00000	0.01618	0.09152	

**Table 36. Consistency Classification for Mathematics Grade 8**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.11821	0.05395	0.00093	0.00000	69.7	0.57
Apprentice	0.04803	0.24342	0.06690	0.00014		
Proficient	0.00087	0.07063	0.24791	0.03143		
Distinguished	0.00000	0.00014	0.03002	0.08743		

## Science

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10950	0.03557	0.00004	0.00003	74.11
Apprentice	0.04839	0.42893	0.07829	0.00029	
Proficient	0.00004	0.06271	0.19714	0.03162	
Distinguished	0.00000	0.00000	0.00197	0.00548	

**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	0.10950	0.03557	0.00004	0.00003	85.86
Apprentice	0.04839	0.42893	0.07829	0.00029	
Proficient	0.00004	0.06271	0.19714	0.03162	
Distinguished	0.00000	0.00000	0.00197	0.00548	

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

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.10385	0.06725	0.00137	0.00000	64.18	0.43
Apprentice	0.05292	0.35896	0.09217	0.00198		
Proficient	0.00116	0.09974	0.16898	0.02540		
Distinguished	0.00000	0.00126	0.01492	0.01003		

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.09418	0.02952	0.00002	0.00002	74.41
Apprentice	0.05152	0.45892	0.08548	0.00030	
Proficient	0.00003	0.06440	0.19023	0.02432	
Distinguished	0.00000	0.00000	0.00031	0.00075	



**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	0.09418	0.02952	0.00002	0.00002	84.98
Apprentice	0.05152	0.45892	0.08548	0.00030	
Proficient	0.00003	0.06440	0.19023	0.02432	
Distinguished	0.00000	0.00000	0.00031	0.00075	

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

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.09031	0.06109	0.00113	0.00000	64.65	0.41
Apprentice	0.05437	0.38653	0.09956	0.00194		
Proficient	0.00106	0.10415	0.16527	0.01904		
Distinguished	0.00000	0.00107	0.01007	0.00442		

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.17884	0.04157	0.00006	0.00023	74.3
Apprentice	0.05775	0.41487	0.07335	0.00033	
Proficient	0.00007	0.06476	0.14927	0.01889	
Distinguished	0.00000	0.00000	0.00000	0.00000	

**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	0.17884	0.04157	0.00006	0.00023	86.12
Apprentice	0.05775	0.41487	0.07335	0.00033	
Proficient	0.00007	0.06476	0.14927	0.01889	
Distinguished	0.00000	0.00000	0.00000	0.00000	

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

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.16946	0.07326	0.00165	0.00000	64.88	0.44
Apprentice	0.06543	0.34459	0.08574	0.00247		
Proficient	0.00177	0.10315	0.13413	0.01635		
Distinguished	0.00000	0.00021	0.00116	0.00063		

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

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12612	0.03802	0.00004	0.00010	75.11
Apprentice	0.04895	0.44451	0.07618	0.00013	
Proficient	0.00004	0.06697	0.18051	0.01842	
Distinguished	0.00000	0.00000	0.00000	0.00000	

**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	0.12612	0.03802	0.00004	0.00010	85.65
Apprentice	0.04895	0.44451	0.07618	0.00013	
Proficient	0.00004	0.06697	0.18051	0.01842	
Distinguished	0.00000	0.00000	0.00000	0.00000	

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

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.11969	0.07053	0.00135	0.00000	65.55	0.43
Apprentice	0.05420	0.37218	0.09039	0.00125		
Proficient	0.00122	0.10659	0.16259	0.01634		
Distinguished	0.00000	0.00022	0.00239	0.00106		

**Social Studies****Table 49. Accuracy Classification for Social Studies Grade 5**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10142	0.02417	0.00002	0.00001	79.55
Apprentice	0.03483	0.25625	0.04892	0.00000	
Proficient	0.00004	0.05104	0.35176	0.03062	
Distinguished	0.00000	0.00000	0.01483	0.08608	

**Table 50. Accuracy Classification at Proficient Cut Point for Social Studies Grade 5**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10142	0.02417	0.00002	0.00001	90
Apprentice	0.03483	0.25625	0.04892	0.00000	
Proficient	0.00004	0.05104	0.35176	0.03062	
Distinguished	0.00000	0.00000	0.01483	0.08608	

**Table 51. Consistency Classification for Social Studies Grade 5**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.09581	0.04281	0.00083	0.00000	71.42	0.58
Apprentice	0.03968	0.21783	0.06775	0.00004		
Proficient	0.00080	0.07078	0.31832	0.03444		
Distinguished	0.00000	0.00003	0.02865	0.08223		

**Table 52. Accuracy Classification for Social Studies Grade 8**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.06897	0.01884	0.00001	0.00002	80.07
Apprentice	0.02262	0.23014	0.04405	0.00000	
Proficient	0.00002	0.05170	0.36422	0.03782	
Distinguished	0.00000	0.00000	0.02420	0.13739	

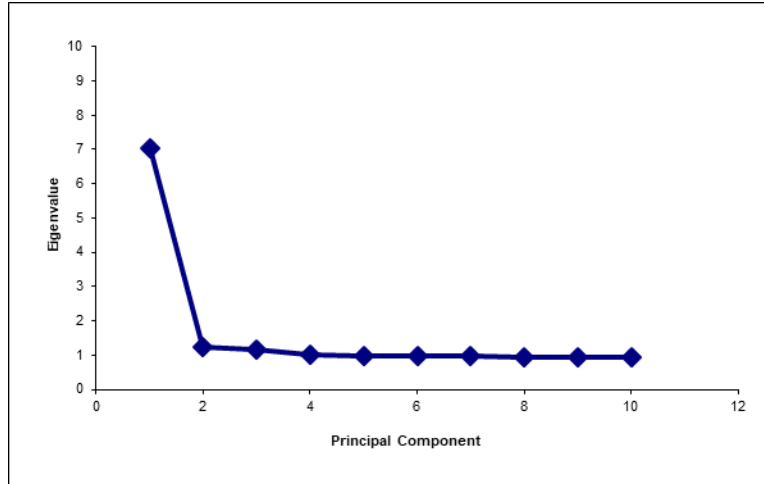
**Table 53. Accuracy Classification at Proficient Cut Point for Social Studies Grade 8**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.06897	0.01884	0.00001	0.00002	90.42
Apprentice	0.02262	0.23014	0.04405	0.00000	
Proficient	0.00002	0.05170	0.36422	0.03782	
Distinguished	0.00000	0.00000	0.02420	0.13739	

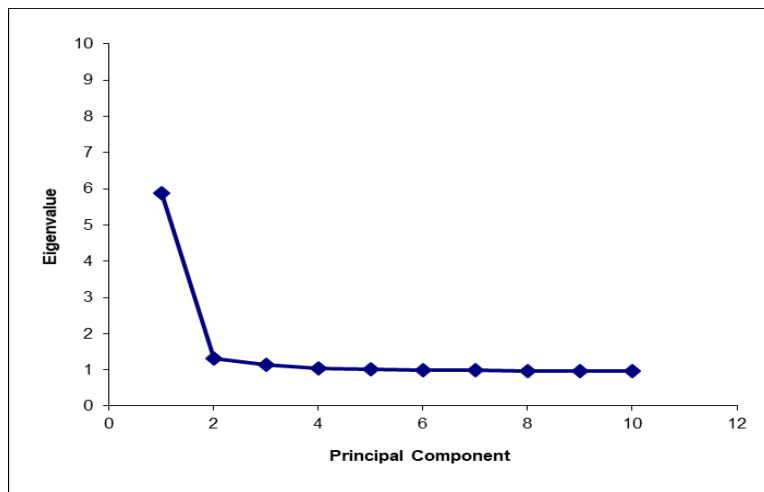
**Table 54. Consistency Classification for Social Studies Grade 8**

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.06558	0.03433	0.00059	0.00000	71.89	0.59
Apprentice	0.02556	0.19762	0.06425	0.00010		
Proficient	0.00047	0.06864	0.32503	0.04450		
Distinguished	0.00000	0.00010	0.04261	0.13063		

## Appendix Q. Principal Components Analysis—Scree Plots<sup>13</sup>

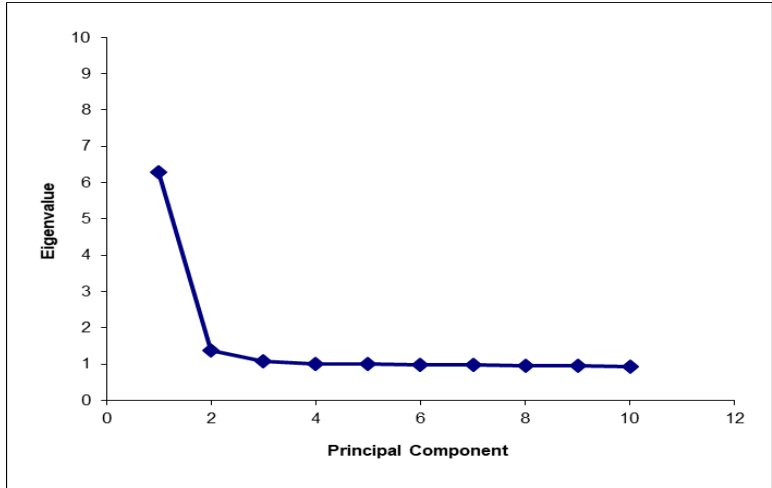


**Figure 1.** Reading Grade 3 Principal Components Scree Plot

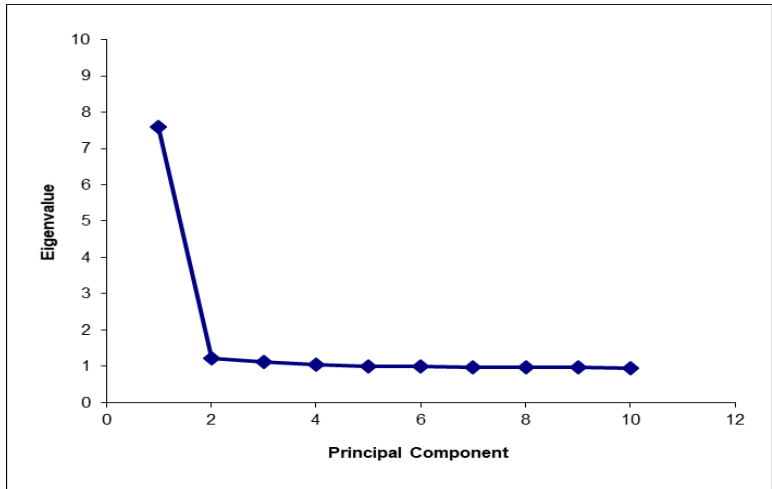


**Figure 2.** Reading Grade 4 Principal Components Scree Plot

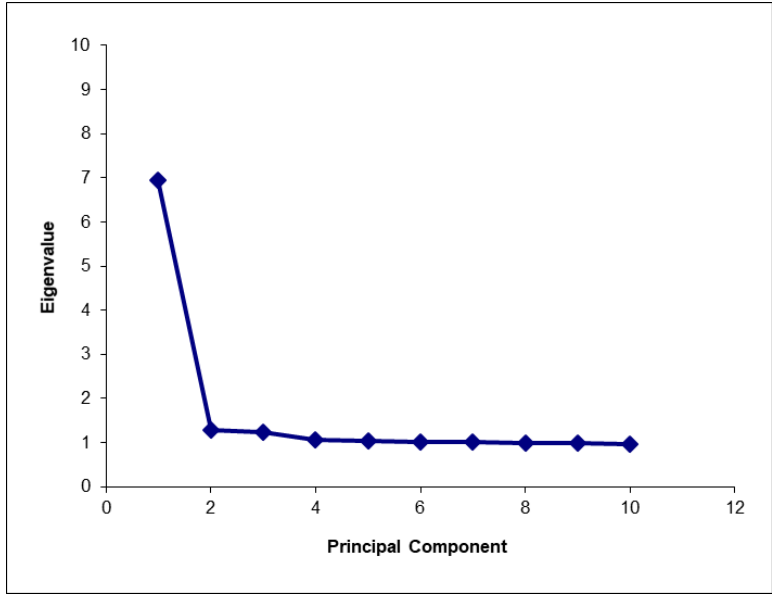
<sup>13</sup> The Alternate K-PREP assessment is not included.



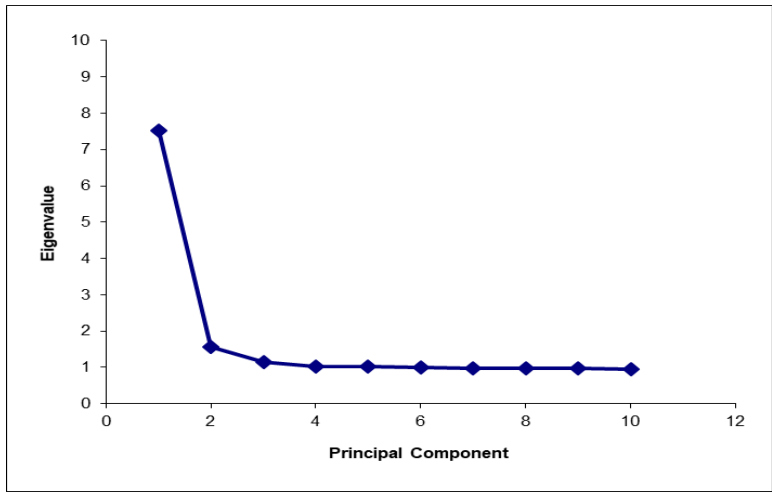
**Figure 3.** Reading Grade 5 Principal Components Scree Plot



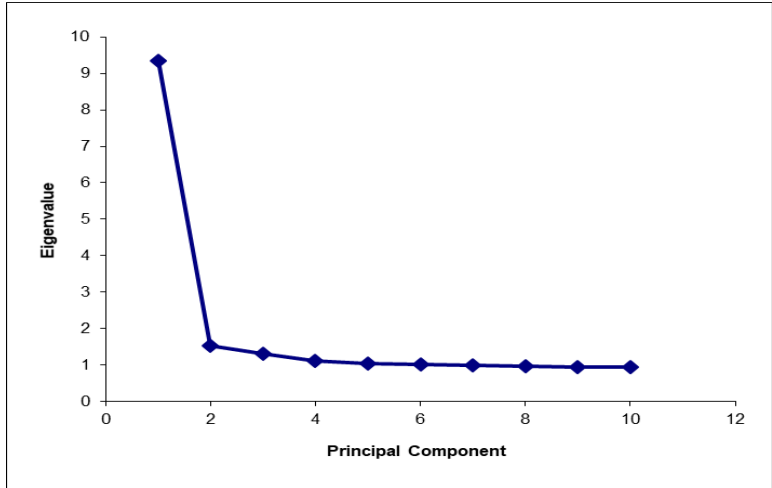
**Figure 4.** Reading Grade 6 Principal Components Scree Plot



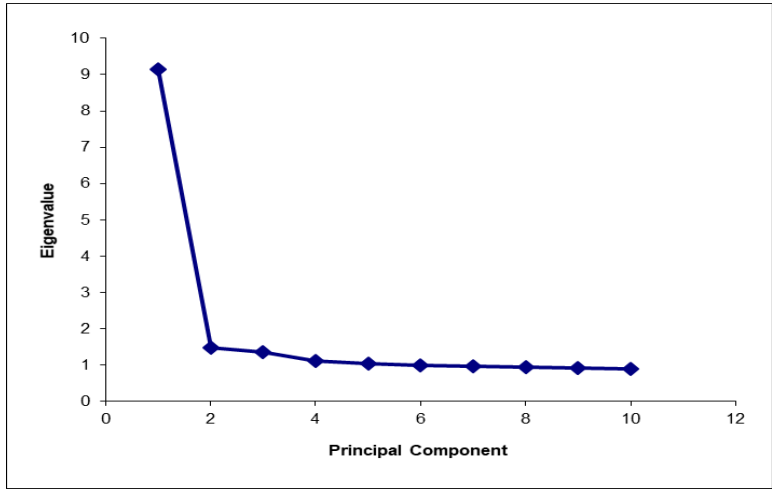
**Figure 5.** Reading Grade 7 Principal Components Scree Plot



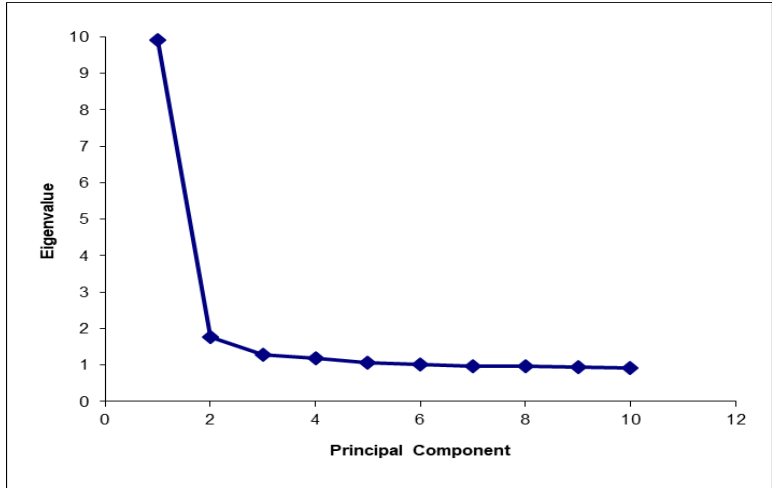
**Figure 6.** Reading Grade 8 Principal Components Scree Plot



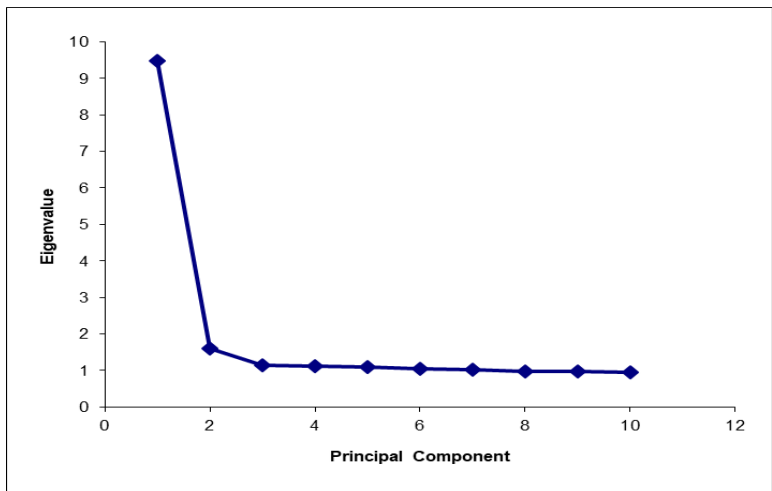
**Figure 7.** Mathematics Grade 3 Principal Components Scree Plot



**Figure 8.** Mathematics Grade 4 Principal Components Scree Plot

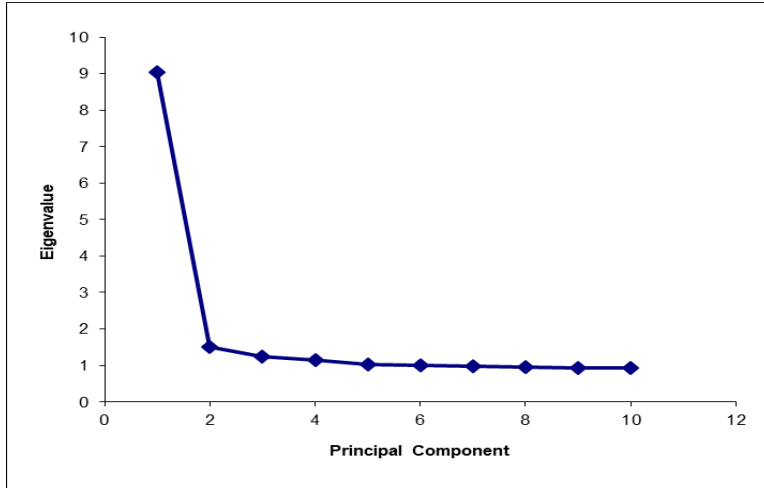


**Figure 9.** Mathematics Grade 5 Principal Components Scree Plot

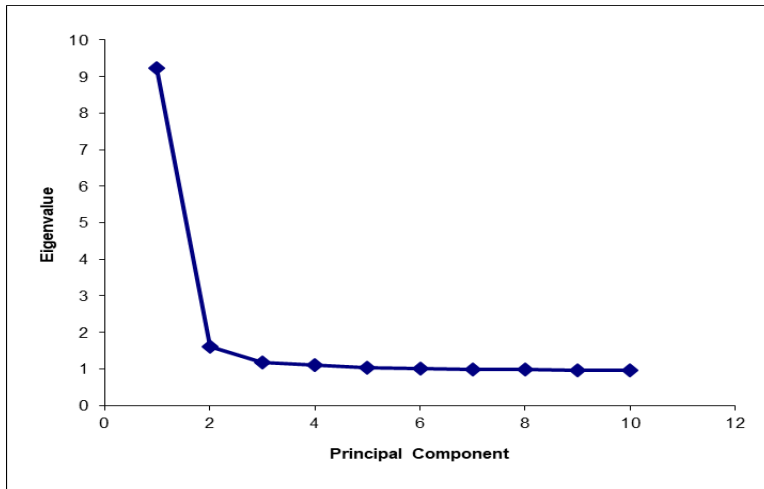


**Figure 10.** Mathematics Grade 6 Principal Components Scree Plot

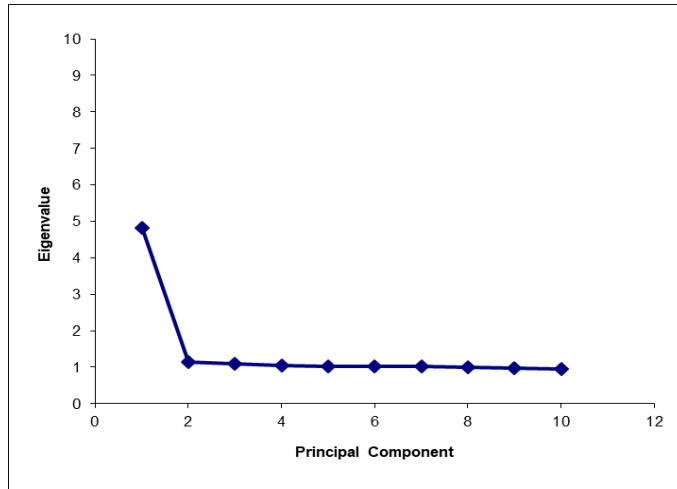




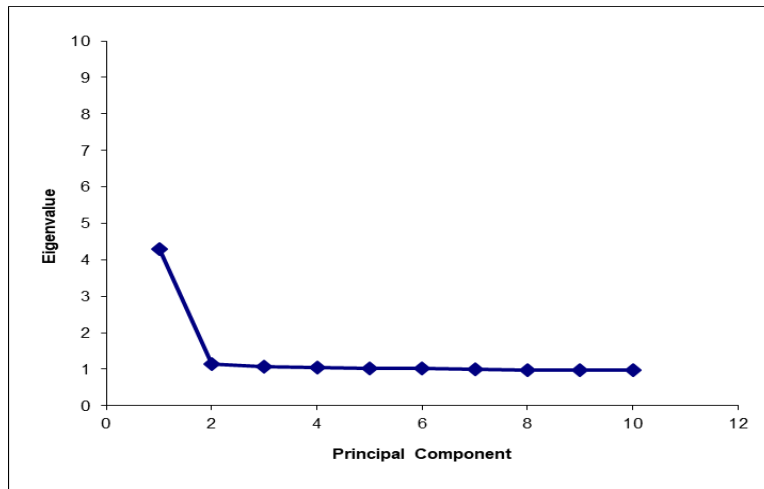
**Figure 11.** Mathematics Grade 7 Principal Components Scree Plot



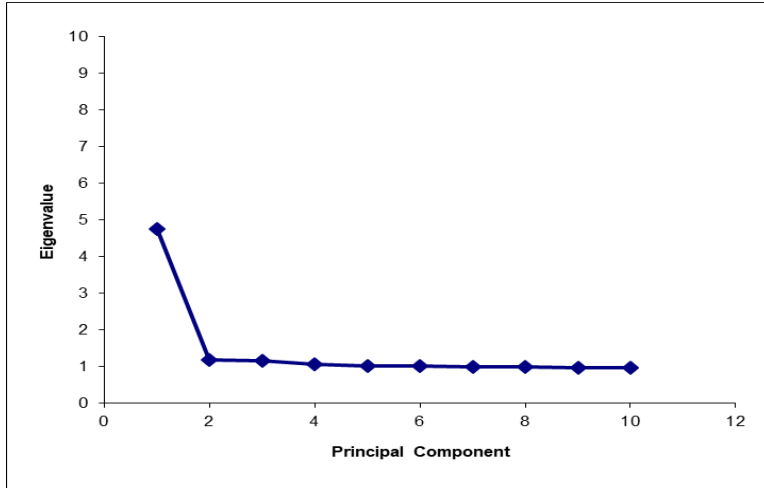
**Figure 12.** Mathematics Grade 8 Principal Components Scree Plot



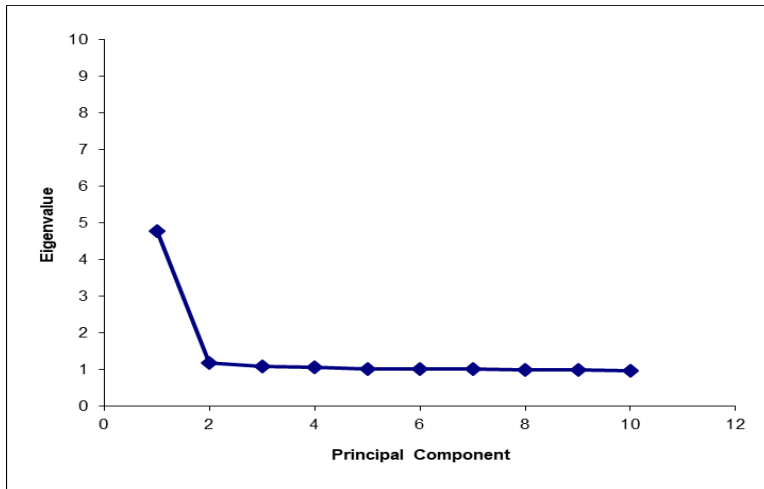
**Figure 13.** Science Grade 4, Operational Set #1 Principal Components Scree Plot



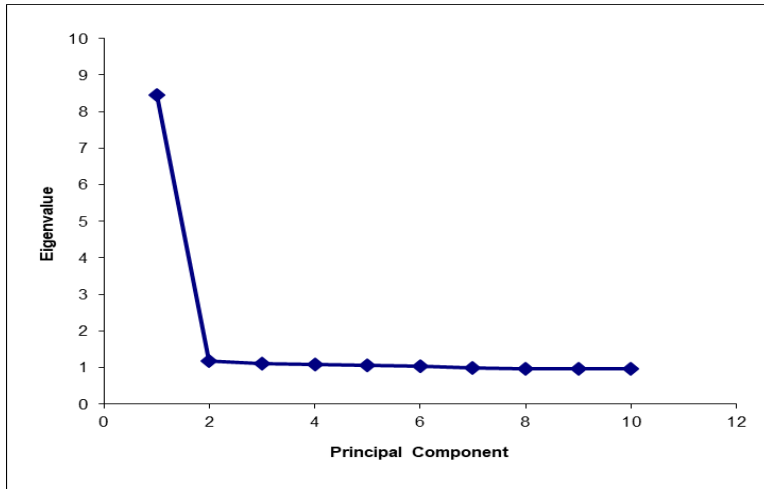
**Figure 14.** Science Grade 4, Operational Set #2 Principal Components Scree Plot



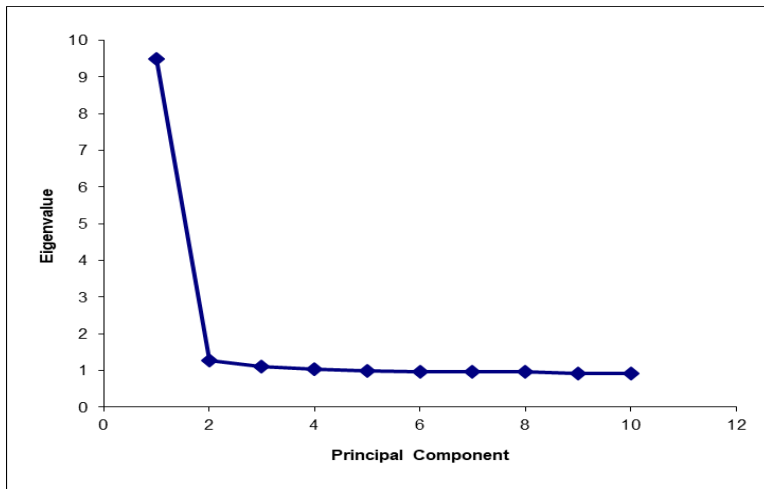
**Figure 15.** Science Grade 7, Operational Set #1 Principal Components Scree Plot



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



**Figure 17.** Social Studies Grade 5 Principal Components Scree Plot



**Figure 18.** 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	0.0174	0.0206	0.0203	0.0209
	4	0.0180	0.0204	0.0201	0.0207
	5	0.0182	0.0206	0.0203	0.0209
	6	0.0146	0.0172	0.0170	0.0174
	7	0.0169	0.0193	0.0191	0.0196
	8	0.0203	0.0223	0.0221	0.0226
Mathematics	3	0.0238	0.0274	0.0271	0.0276
	4	0.0213	0.0239	0.0237	0.0241
	5	0.0276	0.0313	0.0311	0.0315
	6	0.0239	0.0275	0.0272	0.0277
	7	0.0217	0.0248	0.0245	0.0250
	8	0.0223	0.0252	0.0249	0.0254
Science <sup>14</sup>	4(a)	0.0160	0.0185	0.0180	0.0190
	4(b)	0.0132	0.0146	0.0140	0.0151
	7(a)	0.0191	0.0235	0.0230	0.0240
	7(b)	0.0147	0.0168	0.0162	0.0173
Social Studies	5	0.0158	0.0191	0.0189	0.0194
	8	0.0171	0.0210	0.0208	0.0213

<sup>14</sup> *a* and *b* represent the two 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	Total	1.00				
	Key Ideas	0.78	1.00			
	Craft and Structure	0.87	0.58	1.00		
	Integration of Ideas	0.88	0.58	0.68	1.00	
	Vocabulary and Acquisition	0.83	0.56	0.62	0.63	1.00
4	Total	1.00				
	Key Ideas	0.86	1.00			
	Craft and Structure	0.76	0.55	1.00		
	Integration of Ideas	0.87	0.64	0.56	1.00	
	Vocabulary and Acquisition	0.78	0.57	0.52	0.56	1.00
5	Total	1.00				
	Key Ideas	0.82	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	0.60	0.59	1.00
6	Total	1.00				
	Key Ideas	0.84	1.00			
	Craft and Structure	0.87	0.65	1.00		
	Integration of Ideas	0.89	0.67	0.69	1.00	
	Vocabulary and Acquisition	0.79	0.61	0.59	0.60	1.00
7	Total	1.00				
	Key Ideas	0.84	1.00			
	Craft and Structure	0.87	0.65	1.00		
	Integration of Ideas	0.83	0.59	0.63	1.00	
	Vocabulary and Acquisition	0.84	0.61	0.64	0.58	1.00
8	Total	1.00				
	Key Ideas	0.87	1.00			
	Craft and Structure	0.86	0.69	1.00		
	Integration of Ideas	0.82	0.60	0.60	1.00	
	Vocabulary and Acquisition	0.86	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	0.69	1.00		
	Number and Operations - Fractions	0.86	0.66	0.67	1.00	
	Measurement and Data/Geometry	0.89	0.67	0.71	0.68	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	0.67	0.67	1.00	
	Measurement and Data/Geometry	0.89	0.70	0.67	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	0.69	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	0.64	0.68	1.00		
	Geometry	0.86	0.64	0.66	0.68	1.00	
	Statistics and Probability	0.81	0.61	0.64	0.61	0.62	1.00
7	Mathematics Total	1.00					
	Ratios and Proportional Relationships	0.86	1.00				
	The Number System	0.82	0.63	1.00			
	Expressions and Equations	0.88	0.70	0.65	1.00		
	Geometry	0.84	0.66	0.61	0.67	1.00	
	Statistics and Probability	0.83	0.65	0.58	0.68	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	0.71	0.71	1.00	
	Statistics and Probability	0.82	0.65	0.65	0.66	1.00



## 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	0%
	Short Answer	5%
4	Short Answer	0%
	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	0%
	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	2%
	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%

## Social Studies

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