

[REDACTED]

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Exhibit B.1.1 Allocation of School Sample in Armenia – Fourth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools	
			70s	Non-Participating Schools

Exhibit B.2.2 Allocation of School Sample in Australia – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
New South Wales	40	0	27	4	1	8
Victoria	35	0	31	2	1	1
Queensland	35	1	29	1	3	1
South Australia	30	0	25	2	0	3
Western Australia	30	1	23	2	1	3
Tasmania	30	1	25	1	0	3
Northern Territory	15	1	13	1	0	0
Australian Capital Territory	15	0	13	1	1	0
Total	230	4	186	14	7	19

B.3 Bahrain

EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- There were no reported school-level exclusions

Sample Design

- No explicit stratification
- Implicit stratification by school type (girl schools, boy schools, private schools), for a total of three implicit strata
- All schools in the sample

Exhibit B.3.1 Allocation of School Sample in Bahrain – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Bahrain	67	0	67	0	0	0
Total	67	0	67	0	0	0

B.7 Bulgaria

EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of very small schools (less than five eligible students)

Sample Design

- Explicit stratification by school size (very large, large), for a total of two explicit strata
- Implicit stratification within large schools by entrance examination (with, without), for a total of three implicit strata
- The one “Very Large School” was in fact a cluster of smaller schools. One of them was sampled with PPS

Exhibit B.7.1 Allocation of School Sample in Bulgaria – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1 st Replacement	2 nd Replacement	
Very Large Schools	1	0	1	0	0	0
Large Schools						

- Implicit stratification by urbanization (rural, urban), for a total of 12 implicit strata

Exhibit B.8.1 Allocation of School Sample in Chile – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1 st Replacement	2 nd Replacement	
North & Region 8 – Municipal	45	0	43	2	0	0
North & Region 8 – Subsidized	34	0	33	1	0	0
North & Region 8 – Private	31	0	31	0	0	0
All Other Regions – Municipal	50	0	50	0	0	0
All Other Regions - Subsidized	21	0	21	0	0	0
All Other Regions – Private	14	0	13	1	0	0
Total	195	0	191	4	0	0

B.9 Chinese Taipei

Exhibit B.9.1 Allocation of School Sample in Chinese Taipei – Fourth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Chinese Taipei	150	0	150	0	0	0
Total	150	0	150	0	0	0

EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of special education schools and very small schools (less than eight eligible students)

Sample Design

- No explicit stratification
- Implicit stratification by region (five regions) and gender (girls, boys, mixed), for a total of ten implicit strata
- Small schools were sampled with probabilities proportional to size

Exhibit B.9.2 Allocation of School Sample in Chinese Taipei – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Chinese Taipei	150	0	150	0	0	0
Total	150	0	150	0	0	0

B.10 Cyprus

FOURTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of isolated schools and very small schools (less than seven eligible students)

Sample Design

- Explicit stratification by district, for a total of four explicit strata
- Implicit stratification by urbanization (rural, urban), for a total of eight implicit strata
- Schools sampled with equal probabilities

B.11 Egypt

EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of schools for the blind, handicraft schools, sport schools, and very small schools (less than 12 eligible students)

Sample Design

- Explicit stratification by school type, for a total of six explicit strata
- Implicit stratification by gender (boys, girls, mixed), urbanization (rural, urban), school type (public, free private) in the “Afternoon 2nd Shift” stratum, schedule (full time, morning shift, noon shift) in the “Public” stratum, for a total of 42 implicit strata

Exhibit B.11.1 Allocation of School Sample in Egypt – Eighth Grade

Explicit Stratum	To Schools	Eligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Afternoon 2nd Shift	25	0	25	0	0	0
Public Schools	115	0	115	1	0	0
Experimental Language Schools	25	0	25	0	0	0
Free Private Schools	2	0	2	0	0	0
Private Schools	25	0	25	0	0	0
Private Language Schools	25	0	25	1	0	0
Total	217	0	217	2	0	0

B.12 England

FOURTH GRADE

† Coverage is 100%

† School-level exclusions consisted of special education schools and very

small schools (less than eight eligible students)

Sample Design

- No explicit stratification
- Implicit stratification by region, for a total of ten implicit strata

Exhibit B.14.1 Allocation of School Sample in Ghana – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Ghana	150	0	150	0	0	0
Total	150	0	150	0	0	0

B.15 Hong Kong, SAR

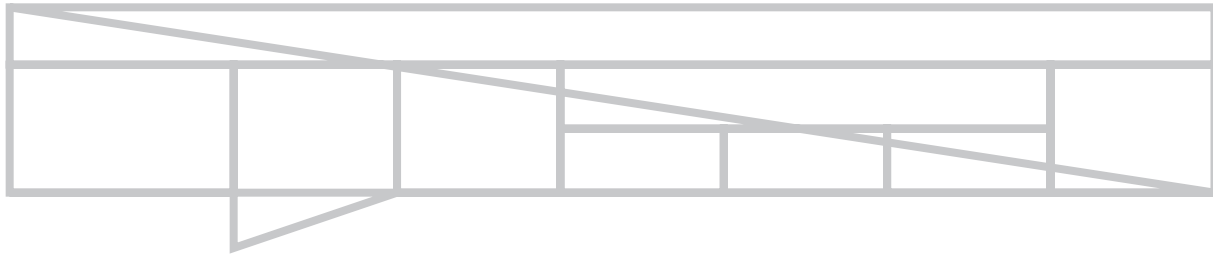
FOURTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of special education schools, international schools, and very small schools (less than nine eligible students)

Sample Design

- No explicit stratification
- Implicit stratification by gender (single-sex, mixed), school type (aided, government & private), and schedule (morning, afternoon, whole day), for a total of 12 implicit strata



EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of special education schools and international schools

Sample Design

- No explicit stratification
- Implicit stratification by gender (single-sex, mixed), school type (aided, government & private), and language (Chinese, English), for a total of eight implicit strata

Exhibit B.15.2 Allocation of School Sample in Hong Kong, SAR – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Hong Kong, SAR	150	0	112	12	1	25
Total	150	0	112	12	1	25

B.16 Hungary**FOURTH GRADE**

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of special education schools and very small schools (less than 15 eligible students)

Sample Design

- Explicit stratification by grade (Fourth Grade only, Fourth Grade and Eighth Grade), for a total of two explicit strata
- Implicit stratification by province (20 provinces) and urbanization (village, town, county seat, Budapest), for a total of 109 implicit strata
- Small schools were sampled with probabilities proportional to size
- Maximum school sample overlap between Fourth Grade and Eighth Grade

Sample Design

- Explicit stratification by school size (small, large) and school type (public,

- Implicit stratification by province (20 provinces) and urbanization (capital town, other towns), for a total of 40 implicit strata
- Small schools were sampled with probabilities proportional to size

Exhibit B.21.1 Allocation of School Sample in Italy – Fourth Grade

Explicit Stratum	Total Sample	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Sample Design

- Explicit stratification by urbanization (big city area, city area, non-city area), for a total of three explicit strata
- No implicit stratification



B.23 Jordan

EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of very small schools (less than nine eligible students)

Sample Design

- No explicit stratification
- Implicit stratification by school type (public, private, UNRWA), urbanization (rural, urban) in the “Public” and “Private” strata, and gender (boys, girls,

Exhibit B.25.2 Allocation of School Sample in Latvia – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Eighth Grade Only	15	1	14	0	0	0
Fourth & Eighth Grade – Very Large	27	0	26	0	0	1
Fourth & Eighth Grade – Large	108	0	97	1	2	8
Total	150	1	137	1	2	9

B.26 Lebanon

EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of very small schools (less than nine eligible students)

Sample Design

- No explicit stratification
- Implicit stratification by school type (public, private), urbanization (rural, urban), and gender (boys, girls, mixed), for a total of ten implicit strata

B.27 Lithuania

FOURTH GRADE

Coverage and Exclusions

- Coverage in Lithuania was restricted to students whose language of instruction is Lithuanian (92% of International Desired Target Grade).
- School-level exclusions consisted of special education schools and very small schools (less than five eligible students)

Sample Design

- Explicit stratification by grade (Fourth Grade only, Fourth Grade and Eighth Grade), for a total of two explicit strata
- Implicit stratification by school type (basic, secondary, primary), for a total of five implicit strata
- Maximum school sample overlap between Fourth Grade and Eighth Grade

Eighth Grade” stratum, and language (National, Russian, mixed) in the “Fourth Grade and Eighth Grade” stratum, for a total of 18 implicit strata

- Maximum school sample overlap between Fourth Grade and Eighth Grade

Exhibit B.30.1 Allocation of School Sample in Moldova – Fourth Grade

Explicit Stratum	x	

Exhibit B.31.1 Allocation of School Sample in Morocco – Fourth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Fourth Grade Only – Region Stratum 1	25	0	24	0	0	1
Fourth Grade Only – Region Stratum 2	25	0	8	0	0	17
Fourth Grade Only – Region Stratum 3	35	0	34	0	0	1
Fourth Grade Only – Region Stratum 4	25	0	24	0	0	1
Fourth Grade Only – Region Stratum 5	30	0	29	0	0	1
Fourth Grade Only – Region Stratum 6	30	0	28	0	0	2
Fourth Grade Only – Region Stratum 7	25	0	23	0	0	2
Fourth Grade Only – Region Stratum 8	30	0	27	0	0	3
Fourth & Eighth Grade	2	2	0	0	0	0
Total	227	2	197	0	0	28

EIGHTH GRADE

Coverage and Exclusions

- Coverage in Morocco was restricted to students outside the regions of Souss Massa Draa, Casablanca and Gharb-Chrardais (69% of the International Desired Target Grade).
- School-level exclusions consisted of special education schools and very small schools (less than six eligible students in both Fourth Grade and Eighth Grade)

Sample Design

- Explicit stratification by grade (Eighth Grade only, Fourth Grade and Int de only, Forhth°

Sample Design

- No explicit stratification
- Implicit stratification by mean National Student Weight (low, medium, high), for a total of three implicit strata



(rural, urban) in the “State” stratum, and gender (boys, girls, mixed) in the “State” stratum, for a total of ten implicit strata

- Schools were sampled with equal probabilities

Exhibit B.33.2 Allocation of School Sample in New Zealand – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
New Zealand	175	1	149	20	0	5
Total	175	1	149	20	0	5

B.34 Norway

FOURTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of special education schools, Sami schools, and very small schools (less than five eligible students in both Fourth Grade and Eighth Grade)

Sample Design

- Explicit stratification by grade (Fourth Grade only, Fourth Grade and Eighth Grade) and language (Bokmål, other), for a total of four explicit strata
- No implicit stratification
- Small schools were sampled with probabilities proportional to size in the “Fourth Grade & Eighth Grade – Bokmål” stratum
- Maximum school sample overlap between Fourth Grade and Eighth Grade

Exhibit B.34.2 Allocation of School Sample in Norway – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Eighth Grade Only – Bokmål	42	0	40	0	0	2
Fourth & Eighth Grade – Bokmål	8	0	6	0	0	2
Eighth Grade Only – Other	73	0	68	0	0	5
Fourth & Eighth Grade – Other	27	0	24	0	0	3
Total	150	0	138	0	0	12

B.35 Ontario Province, Canada

FOURTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of special education schools, remote schools (northern regions), and very small schools (less than ten eligible students in both Fourth Grade and Eighth Grade)

Sample Design

- Explicit stratification by grade (Fourth Grade only, Fourth Grade and Eighth Grade) and language (English, French), for a total of four explicit strata
- Implicit stratification by school type (public, private, separate), for a total of 12 implicit strata
- Maximum school sample overlap between Fourth Grade and Eighth Grade

Exhibit B.35.1 Allocation of School Sample in Ontario Province, Canada – Fourth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Fourth Grade Only – English	32	2	27	1	1	1
Fourth Grade Only – French	25	0	24	1	0	0
Fourth & Eighth Grade – English	88	2	75	4	1	6
Fourth & Eighth Grade – French	55	0	53	2	0	0
Total	200	4	179	8	2	7

EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of special education schools, native schools, overseas schools, and very small schools (less than ten eligible students in both Fourth Grade and Eighth Grade)

Sample Design

- Explicit stratification by grade (Eighth Grade only, Fourth Grade and Eighth Grade) and language (English, French), for a total of four explicit strata
- Implicit stratification by school type (public, private, separate), for a total of 11 implicit strata
- All schools sampled in the “Eighth Grade Only – French” stratum
- Maximum school sample overlap between Fourth Grade and Eighth Grade

Exhibit B.35.2 Allocation of School Sample in Ontario Province, Canada – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible

B.37 Philippines

FOURTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of schools in the ARMM region and very small schools (less than ten eligible students)

Sample Design

- Explicit stratification by school type (public, private), for a total of two explicit strata
- Implicit stratification by region (16 regions), for a total of 32 implicit strata

Exhibit B.37.1 Allocation of School Sample in the Philippines – Fourth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Public	149	0	111	9	4	25
Private	11	0	11	0	0	0
Total	160	0	122	9	4	25

EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of schools in the ARMM Region and very small schools (less than ten eligible students)

Sample Design

- Explicit stratification by school type (public, private), for a total of two explicit strata
- Implicit stratification by region (16 regions), for a total of 32 implicit strata

Exhibit B.37.2 Allocation of School Sample in the Philippines – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Public	126	0	100	5	0	21
Private	34	0	32	0	0	2
Total	160	0	132	5	0	23

B.38 Québec Province, Canada

FOURTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of special education schools, remote schools (northern regions), and very small schools (less than 11 eligible students in both Fourth Grade and Eighth Grade)

Sample Design

- Explicit stratification by grade (Fourth Grade only, Fourth Grade and Eighth Grade) and language (English, French, English & French), for a total of five explicit strata
- Implicit stratification by school type (public, private), for a total of nine implicit strata
- Maximum school sample overlap between Fourth Grade and Eighth Grade

Exhibit B.38.2 Allocation of School Sample in Québec Province, Canada – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Eighth Grade Only – English	66	8	58	0		

Exhibit B.40.2 Allocation of School Sample in the Russian Federation – Eighth Grade

(...Continued)

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Altay Kr*	4	0	4	0	0	0
Omsk Obl	4	0	4	0	0	0
Hanty_Mansii Ok	4	0	4	0	0	0
Tomsk Obl	4	0	4	0	0	0
Krasnoyarsk Obl*	4	0	4	0	0	0
Irkutsk Obl*	4	0	4	0	0	0
Chita Obl	4	0	4	0	0	0
Primorsk Kr	4	0	4	0	0	0
Habarovsk Kr	4	0	4	0	0	0
Sahalin Obl	4	0	4	0	0	0
Total	216	0	214	0	0	2

Strata marked with (*) were selected with certainty

B.41 Saudi Arabia**EIGHTH GRADE**

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of very small schools (less than seven eligible students)

Sample Design

- No explicit stratification
- Implicit stratification by gender (boys, girls) and school type (government, private), for a total of four implicit strata

Exhibit B.41.1 Allocation of School Sample in Saudi Arabia – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Saudi Arabia	160	0	154	1	0	5
Total	160	0	154	1	0	5

B.42 Scotland

FOURTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted very small schools L

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Sample Design

- Explicit stratification by grade (Eighth Grade only, Fourth Grade and Eighth Grade) and school size (large, other) in the “Eighth Grade Only” stratum, for a total of three explicit strata
- Implicit stratification by school performance (six levels) and school type (four types), for a total of 28 implicit strata
- Maximum school sample overlap between Fourth Grade and Eighth Grade
- Minimum school sample overlap between TIMSS and PISA

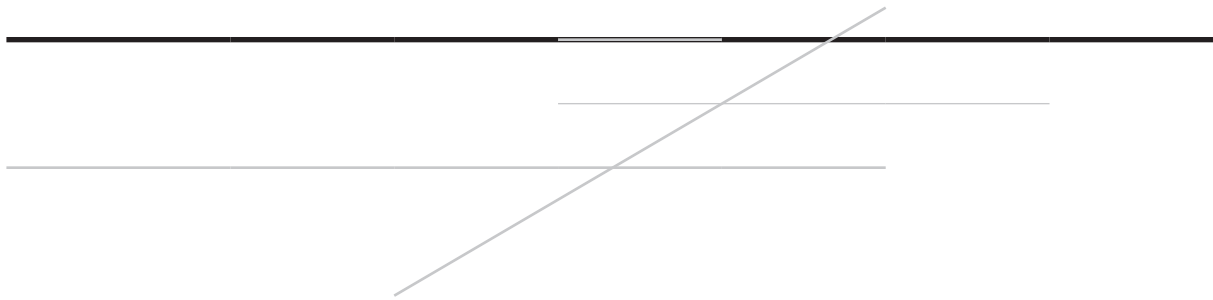


Exhibit B.43.1 Allocation of School Sample in Serbia – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Serbia	150	0	149	0	0	1
Total	150	0	149	0	0	1

B.44 Singapore

FOURTH GRADE

Coverage and Exclusions

- Coverage is 100%
- No school-level exclusions

Sample Design

- All schools in the sample

Exhibit B.44.1

Exhibit B.44.2 Allocation of School Sample in Singapore – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Singapore	164	0	164	0	0	0
Total	164	0	164	0	0	0

B.45 Slovak Republic

EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of special education schools

Sample Design

- Explicit stratification by school type (gymnasium, basic) and language (Slovak, Hungarian), for a total of four explicit strata
- Implicit stratification by regions (eight regions), for a total of 25 implicit strata
- The school measure of size was based on the number of classes in the schools

Exhibit B.45.1 Allocation of School Sample in the Slovak Republic – Eighth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
Gymnasium – Slovak	30	0	26	3	1	0
Gymnasium – Hungarian	10	1	9	0	0	0
Basic – Slovak	120	0	116	4	0	0
Basic – Hungarian	20	0	19	1	0	0
Total	180	1	170	8	1	0

B.46 Slovenia

FOURTH GRADE

Coverage and Exclusions

- Coverage is 100%
- School-level exclusions consisted of special education schools, Italian schools, and very small schools (less than eight eligible students in both Fourth Grade and Eighth Grade)

Sample Design

- Explicit stratification by school structure (new system in both Fourth Grade & 2, new system in Fourth Grade, new system in Eighth Grade, old system) and school size (very large, large) in the “Old System” stratum, for a total of five explicit strata
- Implicit stratification by region (eight regions), for a total of 29 implicit strata
- All schools sampled in the “New System In Both Fourth Grade and 2”, “New System In Fourth Grade”, “New System In Eighth Grade”, and “Old System – Very Large” strata
- Same schools sampled in Fourth Grade and Eighth Grade

The table consists of a grid with approximately 10 columns and 5 rows. A dense network of lines connects various points within the grid, creating a complex web of connections. The lines are most concentrated in the upper-left quadrant and spread out towards the right and bottom. The overall appearance is that of a data matrix or a network diagram where nodes are represented by the grid intersections and edges by the connecting lines.

Exhibit B.50.1

- Implicit stratification by school type (public, private), region (four regions), urbanization (eight levels), and minority status (above 15%, below 15%), for a total of 192 implicit strata
- Small schools were sampled with probabilities proportional to size

Exhibit B.51.1 Allocation of School Sample in the United States- Fourth Grade

Explicit Stratum	Total Sampled Schools	Ineligible Schools	Participating Schools			Non-Participating Schools
			Sampled	1st Replacement	2nd Replacement	
High Poverty	120	3	85	1	16	15
Low Poverty	190	7	127	3	16	37
Total	310	10	212	4	32	52

EIGHTH GRADE

Coverage and Exclusions

- Coverage is 100%
- There were no reported school-level exclusions

Sample Design

- No explicit stratification
- Implicit stratification by school type (public, private), region (four regions), urbanization (eight levels), and minority status (above 15%, below 15%), for a total of 128 implicit strata
- Small schools were sampled with probabilities proportional to size

Exhibit B.51.2
