

Appendix F

Syrian Arab Republic and Yemen Science Achievement

Exhibit F.1: Syrian Arab Republic – Selected Science Achievement Results



Distribution of Science Achievement

Mean Achievement	Years of Schooling	Average Age	5th Percentile (Scale Score)	25th Percentile (Scale Score)	50th Percentile (Scale Score)	75th Percentile (Scale Score)	95th Percentile (Scale Score)
411 (3.7)	8	14	276 (4.1)	356 (5.1)	413 (4.3)	466 (3.1)	538 (6.5)

Gender Difference in Science Achievement

Science Achievement	Girls' Mean	Boys' Mean
411 (3.7)	402 (4.2)	413 (5.8)

▲ Significantly higher than other gender

Average Achievement in Science Content Areas by Gender

Content Area	Girls' Mean	Boys' Mean	Overall Mean
Life Science	444 (3.2)	444 (4.6)	447 (3.0)
Chemistry	437 (3.9)	439 (5.1)	440 (3.4)
Physics	410 (4.0)	427 (5.3) ▲	423 (3.5)
Earth Science	420 (4.4)	438 (5.3) ▲	432 (3.7)
Environmental Science	446 (4.0)	449 (5.1)	450 (3.1)

▲ Significantly higher than other gender

Percentages of Students Reaching International Benchmarks in Science

Advanced International Benchmark (625)	High International Benchmark (550)	Intermediate International Benchmark (475)	Low International Benchmark (400)
0 (0.1)	4 (0.6)	22 (1.4)	56 (2.0)

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

Exhibit F.2: Yemen – Selected Science Achievement Results

SCIENCE
Grade 4

Distribution of Science Achievement							
Mean Achievement	Years of Schooling	Average Age	5th Percentile (Scale Score)	25th Percentile (Scale Score)	50th Percentile (Scale Score)	75th Percentile (Scale Score)	95th Percentile (Scale Score)
250 (9.2)	8	11	5 (0.0)	126 (9.2)	246 (13.0)	370 (13.8)	506 (6.6)

Gender Difference in Science Achievement		
Science Achievement	Girls' Mean	Boys' Mean
250 (9.2)	260 (10.7)	247 (11.1)

▲ Significantly higher than other gender

Average Achievement in Science Content Areas by Gender			
Content Area	Girls' Mean	Boys' Mean	Overall Mean
Life Science	239 (10.8)	223 (10.4)	227 (8.6)
Physical Science	280 (9.3)	268 (10.1)	271 (8.5)
Earth Science	297 (9.4)	288 (9.6)	290 (8.0)

▲ Significantly higher than other gender

Percentages of Students Reaching International Benchmarks in Science			
Advanced International Benchmark (625)	High International Benchmark (550)	Intermediate International Benchmark (475)	Low International Benchmark (400)
0 (0.1)	1 (0.4)	9 (1.3)	20 (2.1)

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.