-Appendix D

Selected Science Achievement Results for Denmark, Sweden, and Switzerland (German–Speaking) – Eighth Grade

Table D.1 Denmark - Selected Achievement Results in the Sciences

Distributions of Science Achievement - Eighth Grade

	Mean	Years of Formal Schooling	Average Age	5th Percentile (Scale Score)	25th Percentile (Scale Score)	50th Percentile (Scale Score)	75th Percentile (Scale Score)	95th Percentile (Scale Score)
ľ	523 (3.3)	8	14.9	371 (6.5)	464 (5.1)	520 (4.5)	588 (4.0)	673 (4.9)

Gender Differences in Science Achievement - Eighth Grade

Boys Mean	Girls Mean	Difference	
538 (3.9)	509 (4.0)	28 (5.5)	

Percentages of Students Achieving International Marker Levels in Science Eighth Grade

Top 10% Level	Top Quarter Level	Top Half Level				
4 (0.5)	14 (1.0)	35 (1.3)				

Average Percent Correct by Science Content Areas - Eighth Grade

Science Overall	Earth Science	Life Science	Physics	Chemsitry	Environmental Issues & the Na- ture of Science
57 (0.7)	55 (0.8)	62 (0.8)	58 (0.7)	49 (0.9)	55 (1.2)

Average Percent Correct for Boys and Girls by Science Content Areas Eighth Grade

Science	Science Overall Earth Science Life Science		cience	Phy	sics		
Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
60 (0.8)	54 (0.8)	60 (0.9)	51 (1.1)	63 (0.9)	61 (1.0)	62 (0.9)	55 (0.9)

Chen	nistry	Environmental Issues & the Nature of Science			
Boys	Girls	Boys	Girls		
54 (1.3)	45 (1.1)	56 (1.6)	55 (1.5)		

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

SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1994-95.

Table D.2

Sweden - Selected Achievement Results in the Sciences

Distributions of Science Achievement - Eighth Grade

Mean	Years of Formal Schooling	Average Age	5th Percentile (Scale Score)	25th Percentile (Scale Score)	50th Percentile (Scale Score)	75th Percentile (Scale Score)	95th Percentile (Scale Score)
570 (4.1)	8	14.9	419 (2.5)	507 (8.1)	566 (4.3)	637 (5.6)	724 (1.6)

Gender Differences in Science Achievement - Eighth Grade

Boys Mean	Girls Mean	Difference	
574 (4.7)	567 (4.4)	7 (6.4)	

Percentages of Students Achieving International Marker Levels in Science Eighth Grade

Eightin Orac	40		
Top 10% Level	Top Quarter Level	Top Half Level	
13 (1.0)	29 (1.4)	56 (2.1)	

Average Percent Correct by Science Content Areas - Eighth Grade

Science Overall	Earth Science	Life Science	Physics	Chemsitry	Environmental Issues & the Na- ture of Science
64 (0.8)	64 (0.9)	69 (0.9)	63 (0.8)	63 (1.1)	57 (1.2)

Average Percent Correct for Boys and Girls by Science Content Areas Eighth Grade

Science	e Overall Earth Science Life Science		Physics				
Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
65 (1.0)	63 (0.9)	66 (1.1)	62 (1.1)	68 (1.1)	70 (0.9)	65 (1.0)	61 (0.9)

Chen	nistry	Environmental Issues & the Nature of Science			
Boys	Girls	Boys	Girls		
65 (1.4)	60 (1.2)	57 (1.5)	58 (1.6)		

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

SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1994-95.

Table D.3 Switzerland (German Speaking) - Selected Achievement Results in the Sciences

Distributions of Science Achievement - Eighth Grade

Mean	Years of Formal Schooling	Average Age	5th Percentile (Scale Score)	25th Percentile (Scale Score)	50th Percentile (Scale Score)	75th Percentile (Scale Score)	95th Percentile (Scale Score)
565 (3.1)	8	15.1	416 (4.8)	501 (2.1)	563 (4.3)	631 (3.8)	718 (5.2)

Gender Differences in Science Achievement - Eighth Grade

Boys Mean	Girls Mean	Difference	
578 (4.0)	553 (3.7)	26 (5.4)	

Percentages of Students Achieving International Marker Levels in Science Eighth Grade

Top 10%	Top Quarter	Top Half	
Level	Level	Level	
11 (0.8)	28 (1.3)	54 (1.7)	

Average Percent Correct by Science Content Areas - Eighth Grade

Science Overall	Earth Science	Life Science	Physics	Chemsitry	Environmental Issues & the Na- ture of Science
63 (0.5)	64 (0.7)	66 (0.6)	63 (0.6)	57 (0.8)	57 (1.1)

Average Percent Correct for Boys and Girls by Science Content Areas Eighth Grade

Science Overall		Earth S	cience	Life So	cience	Phy	sics
Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
65 (0.7)	60 (0.7)	67 (1.0)	61 (0.9)	67 (0.7)	65 (0.7)	68 (0.7)	60 (0.9)

Chen	nistry	Environmental Issues & the Nature of Science			
Boys Girls		Boys	Girls		
62 (1.3)	62 (1.3) 53 (1.1)		55 (1.3)		

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

SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1994-95.