



Appendix D

Item Parameters for IRT Analyses of TIMSS 2003 Data

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Exhibit D.5

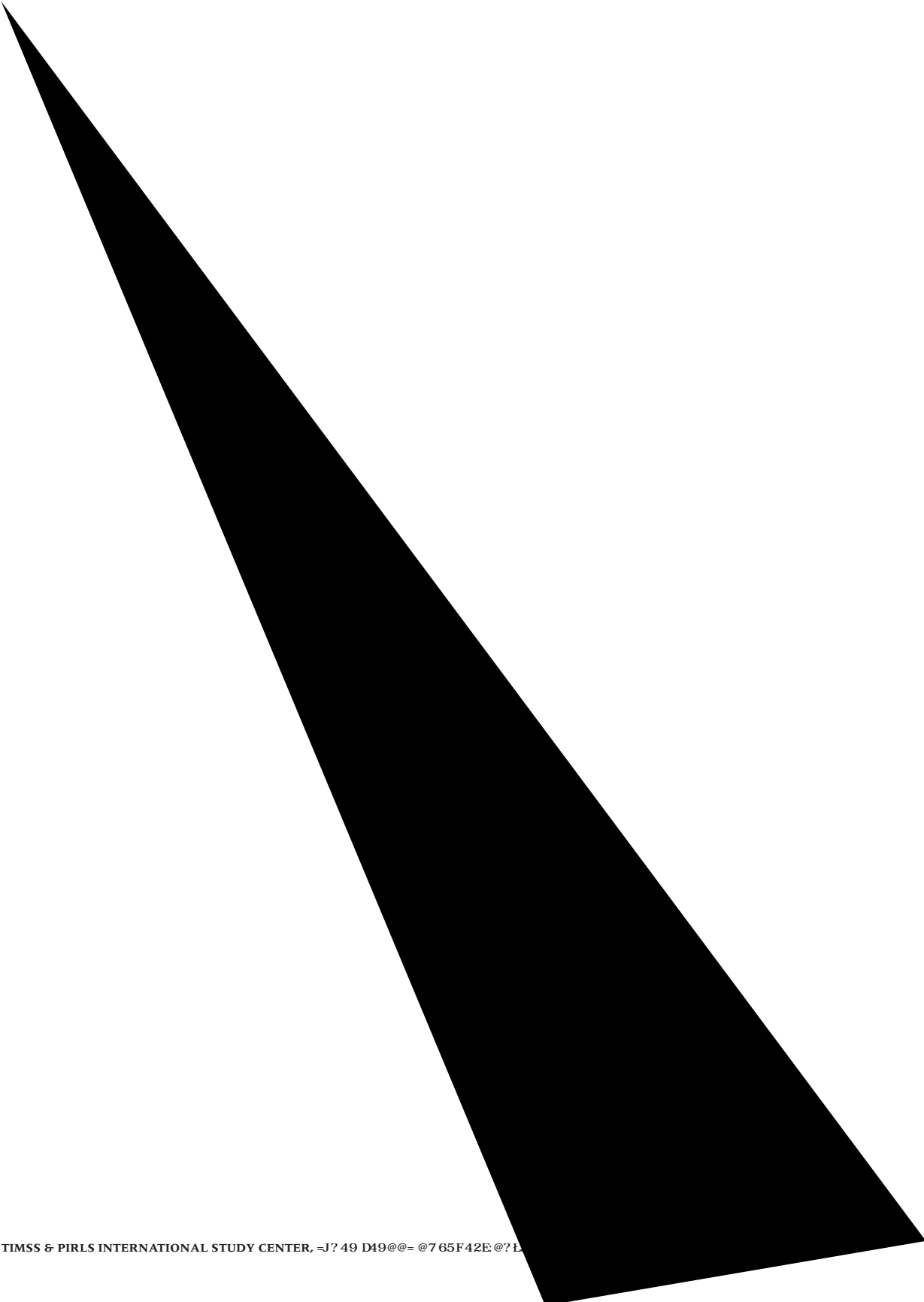


Exhibit D.6 **IRT Parameters for TIMSS2003 Eighth-Grade Mathematics - Measurement**
(...Continued)

Item	Slope (a_j)	S.E. (a_j)	Location (b_j)	S.E. (b_j)	Guessing (c_j)	S.E. (c_j)	Step 1 (d_{j1})	S.E. (d_{j1})	Step 2 (d_{j2})	S.E. (d_{j2})
MF32344	1.450	0.050	0.676	0.021						

This block contains a large area of horizontal ruling lines, typical of a writing template or a page from a notebook. The lines are evenly spaced and extend across most of the page width. A vertical line is present on the left side of this area, and a diagonal line is at the bottom right corner.

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0.644 0.054 0.426 0.082 0.338 0.024
0.654 0.049

Exhibit D.12 IRT Parameters for TIMSS Eighth-Grade Science - Life Science

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Item	Slope (a_j)	S.E. (a_j)	Location (b_j)	S.E. (b_j)	Guessing (c_j)	S.E. (c_j)	Step 1 (d_{j1})	S.E. (d_{j1})	Step 2 (d_{j2})	S.E. (d_{j2})
S032706B	1.340	0.051	0.731	0.022	0.000	0.000				
S032707	1.600	0.078	1.307	0.032	0.000	0.000				
SF12001	0.856	0.052	0.081	0.051	0.116	0.021				
SF12014	1.212	0.063	-0.237	0.041	0.154	0.019				
SF12026	0.974	0.070	-0.313	0.078	0.345	0.029				
SF12028	1.069	0.064	0.511	0.035	0.106	0.014				
SF12038	0.798	0.051	0.062	0.057	0.117	0.022				
SF12039	1.090	0.056	-0.296	0.044	0.126	0.020				
SF22106	1.219	0.124	1.404	0.054	0.108	0.010				
SF22115	1.130	0.072	0.396	0.039	0.179	0.017				
SF22117	0.989	0.079	0.776	0.044	0.179	0.017				

Exhibit D.14 IRT Parameters for TIMSS 2003 Eighth-Grade Science - Environmental Science

Item	Slope (a _j)	S.E. (a _j)	Location (b _j)	S.E. (b _j)	Guessing (c _j)	S.E. (c _j)	Step 1 (d _{j1})	S.E. (d _{j1})	Step 2 (d _{j2})	S.E. (d _{j2})
S012005	0.684	0.057	0.457	0.069	0.305	0.021				
S012017	1.110	0.059	0.536	0.027	0.197	0.011				
S012042	1.137	0.082	0.779	0.035	0.352	0.012				
S022086	0.760	0.021	0.235	0.021	0.000	0.000				
S022088A	1.016	0.024	-0.416	0.019	0.000	0.000				
S022088B	0.793	0.021	0.168	0.020	0.000	0.000				
S022240	0.959	0.109	1.729	0.084	0.254	0.001				
S022244	1.151	0.029	0.922							

