Appendix 12G: Mathematics Item Parameters from the eTIMSS 2019 Non-Invariant Model Calibration—Grade 4

ME01_01	ME51043	0.	
ME01_02	ME51040	0.	0.415 (0.040)
ME01_03			

Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
ME04_04	ME71040	0.058	1.496 (0.111)	0.483 (0.036)	0.100 (0.017)		
ME04_05	ME71068	0.046	0.491 (0.072)	0.735 (0.170)	0.148 (0.051)		
ME04_06A	ME71075A	0.034	1.266 (0.061)	0.353 (0.027)			
ME04_06B	ME71075B	0.067	1.360 (0.070)	0.823 (0.031)			
ME04_07	ME71080	0.038	1.534 (0.149)	0.508 (0.050)	0.271 (0.024)		
ME04_08	ME71211	0.035	0.625 (0.040)	0.139 (0.047)			
ME04_09	ME71178	0.040	0.848 (0.048)	0.576 (0.041)			
ME04_10B	ME71135B	0.080	0.790 (0.045)	-0.220 (0.042)			
ME04_11	ME71201	0.128	0.743 (0.055)	1.599 (0.092)			
ME04_12	ME71175	0.039	0.790 (0.037)	-0.097 (0.030)		0.675 (0.050)	-0.675 (0.044)
ME05_01	ME51206	0.0█		█74)			
ME05_02	ME51052	0.0█		█144)	0.262 (0.053)		
ME05_03	ME51049	0.0█		█046)	0.175 (0.025)		
ME05_04	ME51045	0.0█		(0.029)			
ME05_05	ME51098	0.0█		(0.056)	0.136 (0.023)		
ME05_06	ME51030	0.0█		█5 (0.050)			
ME05_07	ME51502	0.0█		█15 (0.066)	0.130 (0.020)		
ME05_08	ME51224	0.0█		█03 (0.128)	0.256 (0.050)		
ME05_09	ME51207	0.0█		█860 (0.124)	0.333 (0.040)		
ME05_10	ME51427	0.0█		█728 (0.055)	0.160 (0.024)		
ME05_11	ME51533	0.0█		0.181 (0.030)			
ME05_12	ME51080	0.1█		0.231 (0.031)			
ME06_01	ME61018	0.029	0.944 (0.049)	0.106 (0.034)			
ME06_02	ME61274	0.028	0.743 (0.081)	-0.456 (0.180)	0.267 (0.067)		
ME06_03	ME61248	0.032	0.910 (0.040)	0.408 (0.025)		0.443 (0.038)	-0.443 (0.042)
ME06_04	ME61039	0.021	1.103 (0.055)	0.238 (0.030)			
ME06_05	ME61079	0.100	1.253 (0.066)	0.917 (0.035)			
ME06_06	ME61179	0.055	1.284 (0.107)	0.197 (0.057)	0.191 (0.029)		
ME06_07	ME61052	0.048	1.101 (0.086)	0.215 (0.057)	0.116 (0.027)		
ME06_08	ME61207	0.048	1.595 (0.115)	0.428 (0.035)	0.103 (0.017)		
ME06_09	ME61236	0.070	0.789 (0.045)	0.432 (0.040)			
ME06_10	ME61266	0.033	0.494 (0.020)	0.716 (0.040)		-0.892 (0.081)	0.892 (0.090)
ME06_11	ME61106	0.043	1.040 (0.106)	0.095 (0.094)	0.276 (0.041)		
ME07_01	ME51401	0.04█	█ (0.045)				
ME07_02	ME51075	0.05█	█ (0.187)		█020)		
ME07_03	ME51402	0.01█	█2 (0.049█				
ME07_04	ME51226	0.03█	█62 (0.1█	█.257 (0.023)			
ME07_05	ME51131	0.02█	█716 (0█				
ME07_06	ME51103	0.01█	█.279█	█8)	0.277 (0.032)		
ME07_07	ME51217	0.02█	█1.20█	█0.031)			
ME07_08	ME51079	0.11█	0█	█83 (0.042)			

Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
ME10_12A	ME71187A	0.073	0.720 (0.044)	-0.692 (0.058)			
ME10_12B	ME71187B	0.085	0.660 (0.042)	-0.042 (0.047)			
ME11_01	ME61178	0.					
ME11_02	ME61246	0.			0.138 (0.027)		
ME11_03	ME61271	0.					
ME11_04	ME61256	0.					
ME11_05	ME61182	0.					
ME11_06	ME61049	0.		9)	0.354 (0.053)		
ME11_07	ME61232	0.		8)	0.312 (0.037)		
ME11_08	ME61095	0.		35)			
ME11_09	ME61264	0.		034)		-0.177 (0.063)	0.177 (0.068)
ME11_10	ME61108	0.		.152)	0.210 (0.049)		
ME11_11A	ME61211A	0.		0.028)			
ME11_11B	ME61211B	0.		(0.055)	0.273 (0.023)		
ME12_01	ME71001	0.029	0.815 (0.076)	-0.897 (0.164)	0.234 (0.069)		
ME12_02	ME71010	0.037	0.585 (0.038)	-0.299 (0.054)			
ME12_03	ME71062	0.039	1.412 (0.179)	1.248 (0.056)	0.179 (0.017)		
ME12_04A	ME71216A	0.099	1.422 (0.066)	-0.113 (0.026)			
ME12_04B	ME71216B	0.076	1.024 (0.053)	0.460 (0.033)			
ME12_05	ME71117	0.083	0.673 (0.040)	-0.066 (0.045)			
ME12_06	ME71071	0.043	0.883 (0.113)	0.480 (0.106)	0.296 (0.039)		
ME12_07	ME71098	0.045	0.698 (0.035)	0.928 (0.038)		0.178 (0.049)	-0.178 (0.065)
* ME12_08	ME71069	—	1.096 (0.057)	0.565 (0.032)			
ME12_09A	ME71134A	0.104	1.785 (0.124)	0.218 (0.033)	0.115 (0.019)		
ME12_09B	ME71134B	0.125	1.486 (0.073)	0.53-B	0.125		

Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
ME14_01	ME71024	0.035	0.877 (0.047)	0.266 (0.036)			
ME14_02	ME71008	0.028	1.132 (0.085)	-0.182 (0.065)	0.137 (0.033)		
ME14_03	ME71165	0.050	1.212 (0.103)	0.309 (0.055)	0.167 (0.026)		
ME14_04	ME71049	0.106	0.749 (0.042)	0.007 (0.041)			
ME14_05	ME71063	0.042	0.845 (0.046)	0.239 (0.037)			
ME14_06	ME71079	0.050	1.303 (0.142)	0.887 (0.053)	0.216 (0.021)		
ME14_07	ME71081	0.032	1.012 (0.051)	-0.036 (0.032)			
ME14_08	ME71094	0.048	0.697 (0.097)	0.563 (0.133)	0.238 (0.046)		
ME14_09	ME71177	0.057	0.521 (0.037)	0.201 (0.055)			
ME14_10	ME71206	0.049	0.592 (0.066)	-0.329 (0.193)	0.195 (0.064)		
ME14_11A	ME71138A	0.025	0.753 (0.043)	0.007 (0.041)			
ME14_11B	ME71138B	0.079	1.013 (0.058)	0.994 (0.045)			
ME14_12	ME71203	0.044	0.911 (0.135)	1.242 (0.084)	0.207 (0.026)		
ME14_13	ME71205	0.064	1.201 (0.061)	0.531 (0.030)			

Appendix 12H: Science Item Parameters from the eTIMSS 2019 Non-Invariant Model Calibration— Grade 4

SE01_01	SE51054	0.			0.276 (0.057)
SE01_02	SE51024	0.			
SE01_03A	SE51132A	0.			
SE01_03B	SE51132B	0.			
SE01_04	SE51040	0.			
SE01_05	SE51193	0.		05)	0.257 (0.047)
SE01_06	SE51063	0.		063)	0.217 (0.028)
SE01_07	SE51012	0.		.070)	0.268 (0.034)
SE01_08	SE51115	0.		0.029)	
SE01_09	SE51180	0.		(0.147)	0.279 (0.055)
SE01_10	SE51106	0.		(0.063)	0.192 (0.029)
SE01_11	SE51148	0.		(0.079)	0.231 (0.039)
SE02_01	SE71002	0.079	0.615 (0.042)	0.352 (0.047)	
SE02_02	SE71402	0.035	1.133 (0.107)	-0.188 (0.093)	0.293 (0.044)
SE02_03	SE71017	0.030	0.671 (0.043)	0.153 (0.044)	
SE02_04	SE71077	0.031	1.005 (0.053)	0.155 (0.031)	
SE02_05	SE71072	0.073	0.895 (0.120)	0.679 (0.092)	0.264 (0.037)
SE02_06	SE71054	0.053	0.808 (0.047)	0.024 (0.039)	
SE02_07	SE71115	0.019	0.993 (0.134)	0.783 (0.079)	0.273 (0.032)
SE02_08	SE71140	0.045	0.925 (0.090)	-0.100 (0.104)	0.226 (0.046)
SE02_09	SE71128	0.035	0.978 (0.119)	0.183 (0.113)	0.360 (0.044)
SE02_10	SE71147	0.029	1.069 (0.100)	-0.194 (0.096)	0.260 (0.045)
SE02_11A	SE71920A	0.124	0.535 (0.043)		

Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
SE04_01	SE71013	0.037	1.128 (0.104)	-0.646 (0.116)	0.305 (0.056)		
SE04_02	SE71902	0.090	0.338 (0.041)	1.971 (0.220)			
SE04_03	SE71076	0.046	1.022 (0.086)	-0.605 (0.105)	0.207 (0.051)		
SE04_04	SE71041	0.068	0.862 (0.042)	0.827 (0.029)		0.288 (0.039)	-0.288 (0.051)
SE04_05	SE71046	0.051	0.907 (0.051)	0.272 (0.034)			
SE04_06	SE71095	0.036	0.555 (0.040)	0.142 (0.052)			
SE04_07	SE71129	0.028	0.806 (0.090)	-0.581 (0.181)	0.322 (0.067)		
SE04_08	SE71102	0.069	1.019 (0.058)	0.685 (0.035)			
SE04_09	SE71124	0.038	0.963 (0.107)	0.398 (0.086)	0.234 (0.038)		
SE04_10	SE71112	0.044	0.703 (0.074)	-0.915 (0.207)	0.257 (0.074)		
SE04_11	SE71265	0.080	0.355 (0.082)	0.211 (0.502)	0.317 (0.095)		
SE04_12	SE71223	0.059	0.423 (0.056)	-2.841 (0.458)	0.234 (0.092)		
SE05_01	SE51044	0.0		(0.071)			
SE05_03	SE51003	0.0		(0.119)	0.133 (0.042)		
SE05_04	SE51168	0.0		(0.062)			
SE05_05	SE51010	0.0		(0.039)			
SE05_06	SE51035	0.0		75 (0.060)	0.233 (0.021)		
SE05_07	SE51059	0.0		30 (0.058)			
SE05_08	SE51142	0.0		605 (0.141)	0.235 (0.050)		
SE05_09A	SE51131A	0.0		064 (0.088)	0.193 (0.040)		
SE05_09B	SE51131B	0.0		697 (0.077)	0.151 (0.033)		
SE05_10	SE51151	0.0		-0.949 (0.065)			
SE05_11	SE51157	0.0		1.035 (0.093)	0.214 (0.035)		
SE06_01	SE61071	0.033	0.245 (0.047)	-1.669 (0.687)	0.248 (0.095)		
SE06_02	SE61138	0.026	0.558 (0.040)	0.079 (0.052)			
SE06_03A	SE61016A	0.054	0.949 (0.104)	0.535 (0.076)			

Item		RMSD	Slope (a$_i$)	Location (b$_i$)	Guessing (c$_i$)	Step 1 (d$_{i1}$)	Step 2 (d$_{i2}$)
SE07_07	SE51200	0.					
SE07_08	SE51075	0.					
SE07_09	SE51065	0.			0.299 (0.061)		
SE07_10	SE51191	0.			0.241 (0.026)		
SE07_11	SE51099	0.			0.218 (0.040)		
SE07_12	SE51175	0.			37 0 Td [(0.)3.C9 0 Td [(()2 (0.)3.51J 2.600.218		
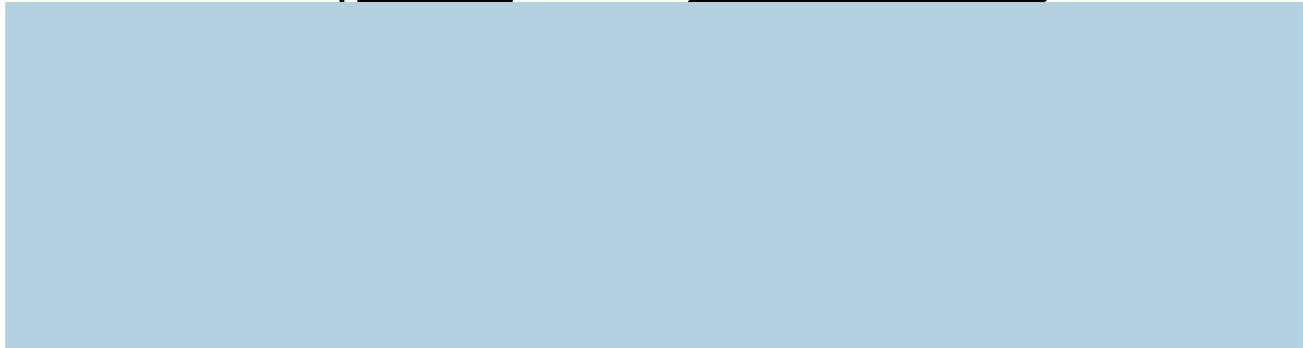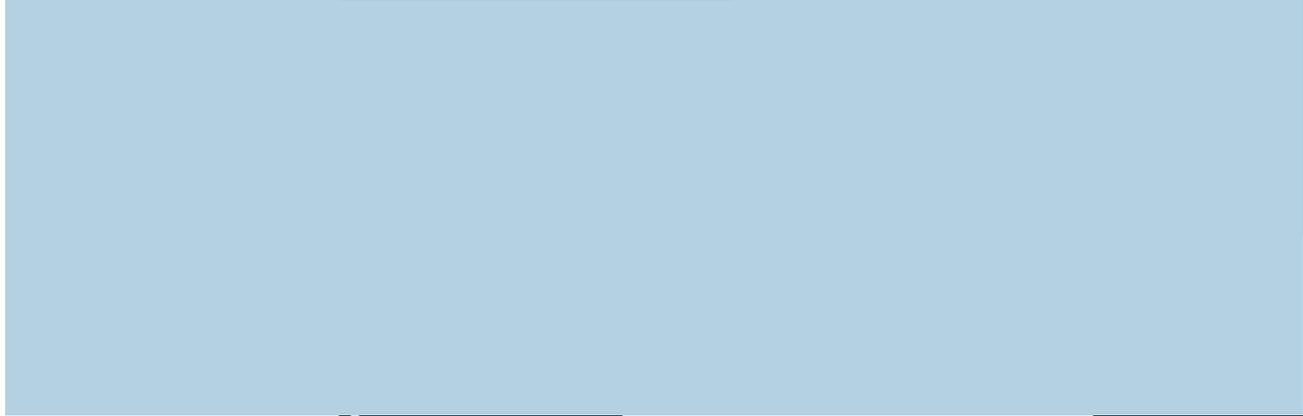
Item	RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
*						
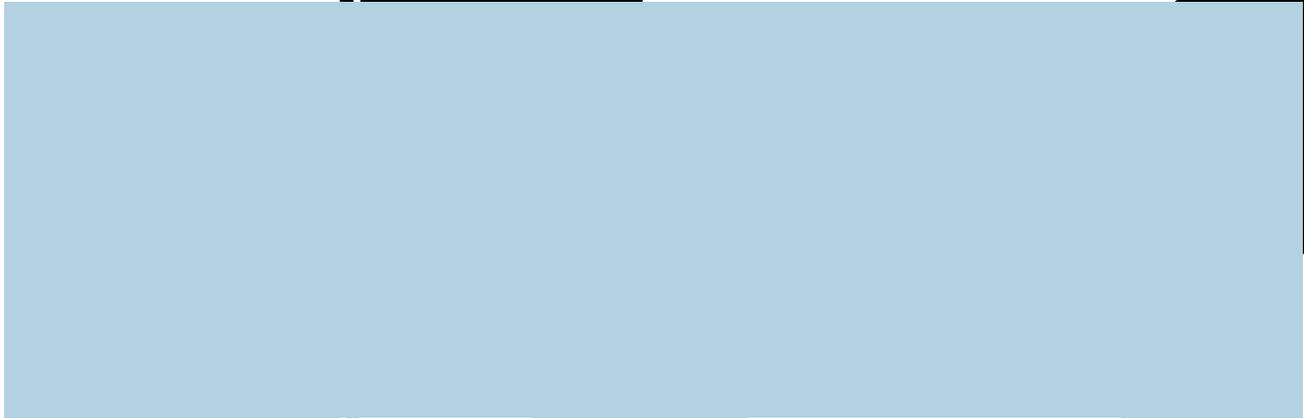
Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
SE14_01	SE71063	0.071	0.420 (0.036)	0.078 (0.067)			
SE14_02	SE71900	0.072	0.517 (0.078)	-0.138 (0.271)	0.269 (0.074)		
SE14_04	SE71043	0.030	0.693 (0.054)	1.435 (0.088)			
SE14_05	SE71005	0.038	0.818 (0.047)	-0.588 (0.052)			
SE14_06	SE71118	0.057	1.170 (0.142)	0.992 (0.056)	0.187 (0.023)		
SE14_07	SE71139	0.030	1.011 (0.114)	0.020 (0.112)	0.354 (0.045)		
SE14_08	SE71114	0.044	0.711 (0.044)	-0.596 (0.058)			
SE14_09 791.142)		0.020					

ME01_01	ME52024	0.			0.231 (0.029)		
ME01_02A	ME52058A	0.					
ME01_02B	ME52058B	0.					
ME01_03	ME52125	0.			0.124 (0.025)		
ME01_04	ME52229	0.					
ME01_05	ME52063	0.		49)	0.196 (0.024)		
ME01_06	ME52072	0.		072)	0.165 (0.037)		
ME01_07A	ME52146A	0.		.045)			
ME01_07B	ME52146B	0.		0.043)			
ME01_08	ME52092	0.		(0.077)	0.186 (0.018)		
ME01_09	ME52046	0.		(0.106)	0.143 (0.023)		
ME01_10	ME52083	0.		6 (0.063)	0.200 (0.024)		
ME01_11	ME52082	0.		85 (0.078)	0.203 (0.038)		
ME01_12	ME52161	0.		47 (0.108)	0.200 (0.052)		
ME01_13A	ME52418A	0.		809 (0.045)	0.139 (0.020)		
ME01_13B	ME52418B	0.		0.773 (0.061)	0.245 (0.027)		
ME02_01	ME72007	0.049	0.760 (0.038)	1.016 (0.040)		-0.143 (0.061)	0.143 (0.075)
ME02_02	ME72025	0.038	1.636 (0.175)	0.678 (0.053)	0.223 (0.025)		
ME02_03	ME72017	0.080	1.377 (0.091)	1.223 (0.044)			
ME02_04	ME72190	0.057	0.969 (0.059)	-0.005 (0.042)			
ME02_05	ME72068	0.039	1.357 (0.140)	0.131 (0.078)	0.250 (0.039)		
ME02_06	ME72076	0.052	1.297 (0.140)	0.766 (0.061)	0.175 (0.026)		
ME02_07	ME72056	0.033	1.288 (0.074)	0.555 (0.034)			
ME02_08	ME72098	0.038	1.906 (0.111)	0.765 (0.028)			

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Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
ME09_01	ME62329	0.			0.233 (0.082)		
ME09_02	ME62151	0.					
ME09_03	ME62346	0.					
ME09_04	ME62212	0.			0.139 (0.018)		
ME09_05	ME62056	0.					
ME09_06	ME62317	0.					
ME09_07	ME62350	0.			0.120 (0.016)		
ME09_08	ME62078	0.					
ME09_09	ME62284	0.			0.300 (0.054)		
ME09_10	ME62245	0.			0.191 (0.024)		
ME09_11	ME62287	0.					
ME09_12A	ME62345A	0.				0.400 (0.057)	-0.400 (0.066)
ME09_13	ME62115	0.			0.186 (0.018)		
ME10_01	ME72187	0.117	0.923 (0.057)	0.014 (0.043)			
ME10_02	ME72022	0.055	1.508 (0.213)	1.210 (0.062)	0.253 (0.021)		
ME10_04	ME72045	0.042	1.294 (0.073)	0.525 (0.034)			
ME10_05	ME72049	0.121	0.797 (0.053)	-0.347 (0.055)			
ME10_06	ME72069	0.119	1.640 (0.091)	0.178 (0.028)			
ME10_07	ME72074	0.065	1.543 (0.094)	0.984 (0.035)			
ME10_08	ME72013	0.064	1.325 (0.126)	0.731 (0.052)	0.111 (0.022)		
ME10_09	ME72095	0.079	1.258 (0.074)	0.740 (0.037)			
ME10_10	ME72109	0.080	1.664 (0.112)	1.286 (0.040)			
ME10_11	ME72125	0.038	2.069 (0.183)	0.718 (0.035)	0.099 (0.015)		
ME10_12	ME72196	0.057	1.311 (0.076)	0.679 (0.035)			
ME10_13	ME72237	0.051	0.729 (0.095)	0.081 (0.178)	0.237 (0.064)		
ME10_14	ME72232	0.057	0.592 (0.046)	-0.101 (0.065)			
ME10_15	ME72 0099	0.	1.286	0.099			

Item	RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})

Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
ME14_13	ME72147	0.031	1.398 (0.090)	1.214 (0.042)			
ME14_14	ME72154	0.041	1.166 (0.123)	0.098 (0.094)	0.235 (0.046)		
ME14_15	ME72192	0.034	0.899 (0.110)	0.418 (0.117)	0.220 (0.047)		
ME14_16	ME72161	0.064	1.083 (0.067)	0.814 (0.042)			

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Appendix 12J:Science Item Parameters from the eTIMSS 2019 Non-Invariant Model Calibration Grade 8

Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
SE01_01	SE52006	0.				0.706 (0.084)	-0.706 (0.066)
SE01_02	SE52069	0.			0.359 (0.040)		
SE01_03	SE52012	0.			0.223 (0.042)		
SE01_04	SE52021	0.					
SE01_05Z	SE52095Z	0.					
SE01_07	SE52054	0.					
SE01_08	SE52150	0.		091)	0.213 (0.033)		
SE01_09A	SE52243A	0.		.057)			
SE01_09B	SE52243B	0.		0.049)			
SE01_09C	SE52243C	0.		(0.134)	0.149 (0.043)		
SE01_10	SE52206	0.		(0.078)	0.162 (0.036)		
SE01_11A	SE52112A	0.		8 (0.153)	0.221 (0.057)		
SE01_11B	SE52112B	0.		60 (0.042)			
SE01_12	SE52294	0.		048 (0.107)	0.221 (0.049)		
SE02_01	SE72072	0.027	0.909 (0.119)	0.517 (0.106)	0.222 (0.044)		
SE02_02	SE72029	0.051	1.336 (0.192)	0.802 (0.076)	0.339 (0.032)		
SE02_03	SE72902	0.067	1.230 (0.073)	0.236 (0.033)			
SE02_04	SE72077	0.067	0.709 (0.104)	0.441 (0.154)	0.224 (0.055)		
SE02_05A	SE72900A	0.045	0.865 (0.062)	0.875 (0.051)			
SE02_05B	SE72900B	0.094	0.678 (0.070)	1.953 (0.147)			
SE02_06	SE72103	0.081	0.715 (0.052)	0.160 (0.052)			
SE02_07	SE72110	0.037	0.883 (0.062)	0.800 (0.048)			
SE02_08	SE72130	0.066	0.752 (0.058)	0.963 (0.061)			
SE02_09	SE72148	0.069	1.290 (0.159)	0.939 (0.059)	0.179 (0.026)		
SE02_10	SE72200	0.029	0.906 (0.118)	0.786 (0.087)	0.164 (0.036)		
SE02_11	SE72232	0.040	1.517 (0.086)	0.303 (0.029)			
SE02_12	SE72275	0.034	1.064 (0.101)	-0.333 (0.101)	0.182 (0.049)		
SE02_13	SE72244	0.030	1.010 (0.065)	0.513 (0.039)			
SE02_14	SE72301	0.068	0.646 (0.128)	1.091 (0.151)	0.220 (0.050)		
SE02_15	SE72721	0.068	1.186 (0.116)	0.097 (0.080)	0.190 (0.040)		
SE02_16	SE72335	0.038	1.145 (0.164)	0.747 (0.087)	0.301 (0.036)		
SE03_01	SE62055	0.04	1 (0.141)		(0.052)		
SE03_02	SE62007	0.02	35 (0.13		194 (0.031)		
SE03_03	SE62275	0.05	937 (0				
SE03_04	SE62225	0.03	.255		0.290 (0.025)		
SE03_05	SE62111	0.02	0.54	(0.042)		-0.040 (0.078)	0.040 (0.082)
SE03_06A	SE62116A	0.02	1.	8 (0.033)			
SE03_06B	SE62116B	0.08		.068 (0.041)			

Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
SE03_06C	SE62116C	0.					
SE03_07	SE62262	0.			0.270 (0.032)		
SE03_08	SE62035	0.			0.200 (0.030)		
SE03_09	SE62144	0.			0.205 (0.056)		
SE03_10	SE62162	0.					
SE03_11	SE62233	0.			0.327 (0.036)		
SE03_13	SE62171	0.		)	0.232 (0.072)		
SE04_01	SE72002	0.046	1.019 (0.105)	0.127 (0.093)	0.188 (0.042)		
* SE04_02	SE72403	—	0.615 (0.048)	0.088 (0.060)			
SE04_03	SE72021	0.046	1.289 (0.144)	0.372 (0.076)	0.262 (0.036)		
SE04_04	SE72082	0.068	0.695 (0.051)	0.091 (0.054)			
SE04_05	SE72066	0.071	1.048 (0.119)	0.458 (0.083)	0.196 (0.037)		
SE04_06	SE72063	0.039	0.731 (0.190)	1.811 (0.176)	0.194 (0.035)		
SE04_07	SE72102	0.078	0.760 (0.054)	0.370 (0.049)			
SE04_08A	SE72141A	0.040	1.010 (0.070)	0.985 (0.048)			
SE04_08B	SE72141B	0.095	0.712 (0.036)	0.907 (0.038)		-0.336 (0.066)	0.336 (0.076)
SE04_09	SE72921	0.073	1.209 (0.090)	1.315 (0.054)			
SE04_10	SE72234	0.063	1.325 (0.175)	1.159 (0.057)	0.151 (0.021)		
SE04_11	SE72251	0.055	1.099 (0.172)	1.081 (0.078)	0.238 (0.030)		
SE04_12	SE72284	0.060	0.587 (0.047)	-0.037 (0.065)			
SE04_13	SE72345	0.038	0.803 (0.045)	0.485 (0.034)		0.638 (0.053)	-0.638 (0.056)
SE04_14	SE72349	0.025	1.125 (0.116)	0.145 (0.087)	0.210 (0.041)		
SE04_15	SE72363	0.051	0.740 (0.103)	0.224 (0.159)	0.245 (0.057)		
SE05_01	SE52076	0.		0.509 (0.135)	0.311 (0.0		
SE05_02	SE52272	0.		-0.079 (0.041)			
SE05_03A	SE52085A	0.		1.280 (0.058)			
SE05_03B	SE52085B	0.00		-0.077 (0.044)			
SE05_04	SE52094	0.		0.927 (0.068)			
SE05_05	SE52248	0.		1.631 (0.142			
SE05_06	SE52146	0.		0.402 (0.			
SE05_07	SE52282	0.		0.822 (			
SE05_08	SE52299	0.		0.3			
SE05_09	SE52144	0.					
SE05_10	SE52214	0.					
SE05_12	SE52101	0.					
SE05_13	SE52113	0.			5 (0.029)		
SE05_14	SE52107	0.	69 (0.1		0.233 (0.039)		
SE06_01	SE62090	0.047	1.084 (0.129)	0.265 (0.100)	0.272 (0.044)		
SE06_02	SE62274	0.031	0.575 (0.029)	0.794 (0.050)		1.266 (0.069)	-1.266 (0.089)

* eTIMSS items without a paper

Item	RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
SE06_03 SE62284	0.040	0.384(0.081)	0.394(0.381)	0.242(0.084		

Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
SE08_15	SE72347	0.046	0.862 (0.166)	1.337 (0.106)	0.216 (0.035)		
SE08_16	SE72351	0.048	0.738 (0.060)	1.146 (0.071)			
SE08_17	SE72367	0.050	0.998 (0.131)	0.821 (0.080)	0.183 (0.034)		
SE09_01	SE62099	0.			0.192 (0.042)		
SE09_02	SE62095	0.				-0.064 (0.085)	0.064 (0.098)
SE09_03	SE62106	0.			0.185 (0.059)		
SE09_04	SE62064	0.					
SE09_05	SE62132	0.			0.229 (0.049)		
SE09_06	SE62163	0.					
SE09_07	SE62153	0.		…68)	0.316 (0.028)		
SE09_08	SE62018	0.		…066)		-0.568 (0.086)	0.568 (0.112)
SE09_09	SE62143	0.		…132)			
SE09_10	SE62276	0.		0.060)			
SE09_11	SE62050	0.		(0.064)			
SE09_12	SE62205	0.		(0.057)	0.144 (0.025)		
SE09_13	SE62190	0.		(0.096)	0.155 (0.042)		
SE09_14A	SE62024A	0.		82 (0.152)	0.219 (0.052)		
SE09_14B	SE62024B	0.		772 (0.125)			
SE10_01	SE72033	0.043	0.786 (0.034)	0.303 (0.030)		-0.463 (0.066)	0.463 (0.065)
SE10_02	SE72440	0.046	0.647 (0.049)	-0.231 (0.064)			
SE10_03	SE72032	0.032	1.284 (0.192)	0.950 (0.073)	0.299 (0.029)		
SE10_04	SE72031	0.056	0.857 (0.134)	1.131 (0.092)	0.164 (0.033)		
SE10_05	SE72086	0.114	0.622 (0.049)	-0.700 (0.085)			
SE10_06	SE72005	0.024	0.917 (0.050)	0.707 (0.031)		0.230 (0.047)	-0.230 (0.055)
SE10_08	SE72123	0.069	0.724 (0.114)	0.411 (0.169)	0.276 (0.058)		
SE10_09	SE72116	0.029	0.563 (0.121)	1.151 (0.179)	0.213 (0.055)		
SE10_10	SE72920	0.062	0.534 (0.032)	0.967 (0.054)		1.002 (0.071)	-1.002 (0.097)
SE10_11	SE72294	0.099	0.725 (0.053)	0.526 (0.052)			
SE10_12	SE72231	0.075	0.868 (0.146)	1.140 (0.098)	0.203 (0.035)		
SE10_13	SE72261	0.063	0.856 (0.057)	-0.204 (0.050)			
SE10_14	SE72220	0.060	1.429 (0.231)	1.435 (0.069)	0.169 (0.019)		
SE10_15	SE72348	0.065	0.589 (0.049)	-0.876 (0.098)			
SE10_16	SE72720	0.032	0.426 (0.126)	2.036 (0.290)	0.166 (0.055)		
SE11_01	SE62279	0.03	(0.125)				
SE11_02	SE62112	0.02	(0.046)				
SE11_03	SE62119	0.03	2 (0.117)		2 (0.046)		
SE11_04	SE62093	0.03	54 (0.0…)			0.206 (0.082)	-0.206 (0.074)
SE11_05	SE62089	0.03	627 (0…)		0.171 (0.021)		
SE11_06	SE62006	0.02	.069…				
SE11_07	SE62067	0.04	0.7… (0.050)				
SE11_08	SE62247	0.03		36 (0.112)	0.273 (0.037)		

Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
SE11_09	SE62177	0.			0.198 (0.037)		
SE11_10	SE62186	0.			0.243 (0.022)		
SE11_11A	SE62211A	0.					
SE11_11B	SE62211B	0.					
SE11_13	SE62033	0.					
SE11_14	SE62037	0.			0.315 (0.052)		
SE11_15	SE62242	0.					
SE12_01	SE72078	0.025	0.943 (0.061)	0.385 (0.041)			
SE12_02	SE72460	0.049	0.861 (0.140)	0.708 (0.128)	0.298 (0.046)		
SE12_03	SE72000	0.047	0.640 (0.031)	0.313 (0.035)		-0.347 (0.073)	0.347 (0.073)
SE12_05	SE72901	0.042	0.438 (0.105)	1.004 (0.290)	0.239 (0.074)		
SE12_06	SE72038	0.082	0.858 (0.124)	0.769 (0.105)	0.208 (0.041)		
SE12_07	SE72120	0.085	0.723 (0.122)	0.772 (0.144)	0.239 (0.051)		
SE12_08	SE72143	0.149	0.894 (0.062)	0.783 (0.048)			
SE12_09	SE72523	0.029	0.598 (0.037)	0.353 (0.040)		0.386 (0.070)	-0.386 (0.071)
SE12_10	SE72168	0.094	1.265 (0.137)	0.591 (0.063)	0.181 (0.030)		
SE12_11	SE72205	0.076	0.763 (0.114)	0.634 (0.131)	0.219 (0.049)		
SE12_12	SE72293	0.028	1.096 (0.071)	0.821 (0.041)			
SE12_13A	SE72280A	0.062	1.174 (0.076)	0.925 (0.041)			
SE12_13B	SE72280B	0.044	1.155 (0.122)	-0.309 (0.113)	0.276 (0.055)		
SE12_14	SE72370	0.049	1.288 (0.142)	0.234 (0.082)	0.269 (0.040)		
SE13_01A	SE62091A	0.		-0.484 (0.126)	0.279 (0.061)		
SE13_01B	SE62091B	0.		-0.500 (0.207)	0.229 (0.073)		
SE13_02	SE62100	0.		0.526 (0.040)			
SE13_03	SE62097	0.		0.396 (0.108)	0.226 (		
SE13_04	SE62101	0.		0.033 (0.043)			(0.072)
SE13_06	SE62128	0.		0.117 (0.042)			
SE13_07	SE62047	0.		0.368 (0.075)			
SE13_08	SE62042	0.		0.861 (0.076			
SE13_09	SE62250	0.		1.366 (0.			
SE13_10	SE62246	0.		1.163 (			
SE13_11	SE62056	0.		0.50			
SE13_12	SE62235	0.		0			
SE13_13	SE62180	0.					
SE13_14	SE62022	0.		(0.050)			
SE13_15	SE62243	0.		(0.03		-0.227 (0.078)	0.227 (0.069)
SE14_01	SE72011	0.097	1.238 (0.127)	-0.090 (0.093)	0.253 (0.047)		
SE14_02	SE72905	0.090	0.482 (0.044)	-0.097 (0.078)			
SE14_03	SE72049	0.056	0.629 (0.108)	0.434 (0.207)	0.266 (0.065)		
SE14_04	SE72016	0.069	1.031 (0.051)	0.690 (0.027)		0.033 (0.045)	-0.033 (0.050)
SE14_05	SE72451	0.053	0.868 (0.057)	-0.137 (0.049)			

Item		RMSD	Slope (a_i)	Location (b_i)	Guessing (c_i)	Step 1 (d_{i1})	Step 2 (d_{i2})
SE14_06	SE72074	0.094	0.878 (0.060)	0.608 (0.045)			
SE14_07	SE72091	0.038	1.150 (0.160)	0.821 (0.079)	0.264 (0.033)		
SE14_08	SE72109	0.062	0.693 (0.052)	0.487 (0.053)			
SE14_09	SE72140	0.036	0.808 (0.141)	0.915 (0.124)	0.262 (0.045)		
SE14_10	SE72132	0.036	1.007 (0.083)	1.540 (0.077)			
SE14_11	SE72209	0.038	0.940 (0.118)	0.548 (0.097)	0.202 (0.041)		
SE14_12	SE72210	0.043	0.479 (0.035)	1.126 (0.065)		0.604 (0.079)	-0.604 (0.107)
SE14_13	SE72249	0.039	0.788 (0.116)	0.998 (0.098)	0.149 (0.036)		
SE14_14	SE72323	0.051	0.687 (0.115)	0.690 (0.157)	0.234 (0.054)		
SE14_15	SE72368	0.138	0.744 (0.088)	-0.236 (0.167)	0.214 (0.063)		
SE14_16	SE72303	0.078	0.786 (0.144)	1.364 (0.109)	0.165 (0.035)		