

## ANNEX A – MAIN SURVEY ITEM POOL CLASSIFICATION

[Part 1/4]

Table A.1 PISA 2012 Main Survey mathematics item classification

Unit Item Code	Unit Name	Source	Language of submission	Item Format	Content
PM00FQ01	"MATH - P2012 Apartment Purchase Q1"	Italy	Italian	Constructed Response Expert	Space and shape
PM00GQ01	"MATH - P2012 An Advertising Column Q1"	Czech	English	Constructed Response Manual	Space and shape
PM00KQ02	"MATH - P2012 Wheelchair Basketball Q2"	Canada	English	Constructed Response Expert	Space and shape
PM033Q01	"MATH - P2000 A View with a Room Q1"	CITO	Dutch	Simple Multiple Choice	Space and Shape
PM034Q01T	"MATH - P2000 Bricks Q1"	CITO	Dutch	Constructed Response Auto-coded	Space and Shape
PM155Q01	"MATH - P2000 Pop Pyramids Q1"	CITO	Dutch	Constructed Response Expert	Change and Relationships
PM155Q02D	"MATH - P2000 Pop Pyramids Q2"	CITO	Dutch	Constructed Response Expert	Change and Relationships
PM155Q03D	"MATH - P2000 Pop Pyramids Q3"	CITO	Dutch	Constructed Response Expert	Change and Relationships
PM155Q04T	"MATH - P2000 Pop Pyramids Q4"	CITO	Dutch	Complex Multiple Choice	Change and Relationships
PM192Q01T	"MATH - P2000 Containers Q1"	Germany	German	Complex Multiple Choice	Change and Relationships
PM273Q01T	"MATH - P2000 Pipelines Q1"	Czech Republic	Czech	Complex Multiple Choice	Space and Shape
PM305Q01	"MATH - P2000 Map Q1"	ACER	English	Simple Multiple Choice	Space and Shape
PM406Q01	"MATH - P2003 Running Tracks Q1"	ACER	English	Constructed Response Expert	Space and Shape
PM406Q02	"MATH - P2003 Running Tracks Q2"	ACER	English	Constructed Response Expert	Space and Shape
PM408Q01T	"MATH - P2003 Lotteries Q1"	ACER	English	Complex Multiple Choice	Uncertainty and data
PM411Q01	"MATH - P2003 Diving Q1"	ACER	English	Constructed Response Manual	Quantity
PM411Q02	"MATH - P2003 Diving Q2"	ACER	English	Simple Multiple Choice	Uncertainty and data
PM420Q01T	"MATH - P2003 Transport Q1"	ACER	English	Complex Multiple Choice	Uncertainty and data
PM423Q01	"MATH - P2003 Tossing Coins Q1"	ACER	English	Simple Multiple Choice	Uncertainty and data
PM442Q02	"MATH - P2003 Braille Q2"	ACER	English	Constructed Response Manual	Quantity
PM446Q01	"MATH - P2003 The Thermometer Cricket Q1"	ACER	English	Constructed Response Manual	Change and Relationships
PM446Q02	"MATH - P2003 The Thermometer Cricket Q2"	ACER	English	Constructed Response Expert	Change and Relationships
PM447Q01	"MATH - P2003 Tile Arrangement Q1"	ACER	English	Simple Multiple Choice	Space and Shape
PM462Q01D	"MATH - P2003 The Third Side Q1"	Sweden	English	Constructed Response Expert	Space and Shape
PM464Q01T	"MATH - P2003 The Fence Q1"	Sweden	English	Constructed Response Auto-coded	Space and Shape
PM474Q01	"MATH - P2003 Running Time Q1"	Canada	English	Constructed Response Manual	Quantity
PM496Q01T	"MATH - P2003 Cash Withdrawal Q1"	ACER	English	Complex Multiple Choice	Quantity
PM496Q02	"MATH - P2003 Cash Withdrawal Q2"	ACER	English	Constructed Response Manual	Quantity
PM559Q01	"MATH - P2003 Telephone Rates Q1"	Italy	English	Simple Multiple Choice	Quantity
PM564Q01	"MATH - P2003 Chair Lift Q1"	Italy	English	Simple Multiple Choice	Quantity
PM564Q02	"MATH - P2003 Chair Lift Q2"	Italy	English	Simple Multiple Choice	Uncertainty and data
PM571Q01	"MATH - P2003 Stop the Car Q1"	Germany	German	Simple Multiple Choice	Change and Relationships
PM603Q01T	"MATH - P2003 Number Check Q1"	Austria	German	Complex Multiple Choice	Quantity
PM800Q01	"MATH - P2003 Computer Game Q1"	Canada	English	Simple Multiple Choice	Quantity
PM803Q01T	"MATH - P2003 Labels Q1"	Canada	English	Constructed Response Auto-coded	Uncertainty and data
PM828Q01	"MATH - P2003 Carbon Dioxide Q1"	Netherlands	English	Constructed Response Expert	Change and Relationships
PM828Q02	"MATH - P2003 Carbon Dioxide Q2"	Netherlands	English	Constructed Response Manual	Uncertainty and data
PM828Q03	"MATH - P2003 Carbon Dioxide Q3"	Netherlands	English	Constructed Response Manual	Quantity
PM903Q01	"MATH - P2012 Drip Rate Q1"	ACER	English	Constructed Response Expert	Change and relationships
PM903Q03	"MATH - P2012 Drip Rate Q3"	ACER	English	Constructed Response Manual	Change and relationships
PM905Q01T	"MATH - P2012 Tennis Balls Q1"	ACER	English	Complex Multiple Choice	Quantity
PM905Q02	"MATH - P2012 Tennis Balls Q2"	ACER	English	Constructed Response Expert	Quantity
PM906Q01	"MATH - P2012 Crazy Ants Q1"	ACER	English	Simple Multiple Choice	Quantity
PM906Q02	"MATH - P2012 Crazy Ants Q2"	ACER	English	Constructed Response Expert	Quantity
PM909Q01	"MATH - P2012 Speeding Fines Q1"	aSPe	English	Constructed Response Manual	Quantity
PM909Q02	"MATH - P2012 Speeding Fines Q2"	aSPe	English	Simple Multiple Choice	Quantity
PM909Q03	"MATH - P2012 Speeding Fines Q3"	aSPe	English	Constructed Response Expert	Change and relationships
PM915Q01	"MATH - P2012 Carbon Tax Q1"	ILS	English	Simple Multiple Choice	Uncertainty and data
PM915Q02	"MATH - P2012 Carbon Tax Q2"	ILS	English	Constructed Response Manual	Change and relationships
PM918Q01	"MATH - P2012 Charts Q1"	IPN/Kassel	English	Simple Multiple Choice	Uncertainty and data
PM918Q02	"MATH - P2012 Charts Q2"	IPN/Kassel	English	Simple Multiple Choice	Uncertainty and data
PM918Q05	"MATH - P2012 Charts Q5"	IPN/Kassel	English	Simple Multiple Choice	Uncertainty and data
PM919Q01	"MATH - P2012 Zs Fan Merchandise Q1"	IPN/Kassel	English	Constructed Response Manual	Quantity
PM919Q02	"MATH - P2012 Zs Fan Merchandise Q2"	IPN/Kassel	English	Constructed Response Manual	Quantity
PM923Q01	"MATH - P2012 Sailing Ships Q1"	IPN/Kassel	English	Simple Multiple Choice	Quantity
PM923Q03	"MATH - P2012 Sailing Ships Q3"	IPN/Kassel	English	Simple Multiple Choice	Space and shape
PM923Q04	"MATH - P2012 Sailing Ships Q4"	IPN/Kassel	English	Constructed Response Expert	Change and relationships
PM924Q02	"MATH - P2012 Sauce Q2"	NIER	English	Constructed Response Manual	Quantity
PM934Q01	"MATH - P2012 London Eye Q1"	Mathematics Expert Group	English	Constructed Response Manual	Space and shape



[Part 2/4]

Table A.1 PISA 2012 Main Survey mathematics item classification

Unit Item Code	Context	Process	Cluster	International % correct	S.E. % correct	Item parameters (RP=0.50)			Thresholds (RP=0.62) PISA scale	
						Delta	Tau(1)	Tau(2)	1	2
PM00FQ01	Personal	Formulate	PM6A	44.64	(0.24)	0.39027			576.2	
PM00GQ01	Personal	Formulate	PM5	8.78	(0.13)	2.75209			760.1	
PM00KQ02	Personal	Formulate	PM4	14.85	(0.18)	1.97967			699.9	
PM033Q01	Personal	Interpret	PM1	75.78	(0.20)	-1.44130			433.5	
PM034Q01T	Occupational	Formulate	PM1	42.38	(0.23)	0.42603			579.0	
PM155Q01	Scientific	Interpret	PM1	67.67	(0.22)	-0.84340			480.0	
PM155Q02D	Scientific	Employ	PM1	61.57	(0.21)	-0.44941	0.74491	-0.74491	492.4	529.1
PM155Q03D	Scientific	Employ	PM1	18.68	(0.17)	1.56865	-1.56865	1.56865	639.4	696.6
PM155Q04T	Scientific	Interpret	PM1	55.87	(0.23)	-0.38438			515.8	
PM192Q01T	Scientific	Formulate	PM2	42.44	(0.24)	0.44066			580.0	
PM273Q01T	Occupational	Employ	PM3	51.46	(0.23)	-0.30936			521.6	
PM305Q01	Societal	Employ	PM2	60.36	(0.22)	-0.70057			491.2	
PM406Q01	Societal	Employ	PM2	25.62	(0.22)	1.26690			644.5	
PM406Q02	Societal	Formulate	PM2	16.89	(0.19)	1.92572			695.8	
PM408Q01T	Societal	Interpret	PM3	39.39	(0.23)	0.57862			590.9	
PM411Q01	Societal	Employ	PM1	51.08	(0.25)	0.00939			546.6	
PM411Q02	Societal	Interpret	PM1	45.71	(0.24)	0.03440			548.4	
PM420Q01T	Personal	Interpret	PM3	50.02	(0.23)	-0.08922			538.8	
PM423Q01	Personal	Interpret	PM2	79.05	(0.19)	-1.85314			401.4	
PM442Q02	Societal	Interpret	PM1	38.26	(0.24)	0.60225			592.7	
PM446Q01	Scientific	Formulate	PM3	68.57	(0.23)	-0.95034			471.8	
PM446Q02	Scientific	Formulate	PM3	6.82	(0.13)	2.97548			777.6	
PM447Q01	Societal	Employ	PM3	68.33	(0.22)	-1.03098			465.5	
PM462Q01D	Scientific	Employ	PM1	12.20	(0.16)	1.70520	0.65379	-0.65379	658.6	698.6
PM464Q01T	Societal	Formulate	PM3	23.66	(0.21)	1.35931			651.6	
PM474Q01	Personal	Employ	PM1	74.31	(0.20)	-1.32556			442.6	
PM496Q01T	Societal	Formulate	PM2	52.97	(0.24)	-0.30933			521.6	
PM496Q02	Societal	Employ	PM2	66.74	(0.22)	-0.97302			470.0	
PM559Q01	Societal	Interpret	PM3	63.14	(0.23)	-0.95819			471.2	
PM564Q01	Societal	Formulate	PM2	46.11	(0.24)	-0.07690			539.8	
PM564Q02	Societal	Formulate	PM2	45.82	(0.24)	-0.03745			542.9	
PM571Q01	Scientific	Interpret	PM2	47.67	(0.24)	0.04707			549.4	
PM603Q01T	Scientific	Employ	PM2	45.07	(0.23)	0.19753			561.1	
PM800Q01	Personal	Employ	PM3,PMUH	88.39	(0.14)	-2.93302			317.3	
PM803Q01T	Occupational	Formulate	PM1	29.18	(0.22)	1.25570			643.6	
PM828Q01	Scientific	Employ	PM3	28.45	(0.21)	0.98562			622.5	
PM828Q02	Scientific	Employ	PM3	55.95	(0.23)	-0.44691			511.0	
PM828Q03	Scientific	Employ	PM3	28.02	(0.21)	0.96819			621.2	
PM903Q01	Occupational	Employ	PM6A	22.23	(0.19)	1.13372	0.48693	-0.48693	610.5	657.7
PM903Q03	Occupational	Employ	PM6A	25.70	(0.21)	1.10252			631.7	
PM905Q01T	Occupational	Interpret	PM7A	77.71	(0.19)	-1.62564			419.1	
PM905Q02	Occupational	Interpret	PM7A	50.05	(0.25)	-0.02564			543.8	
PM906Q01	Scientific	Employ	PM4	60.65	(0.24)	-0.65141			495.1	
PM906Q02	Scientific	Employ	PM4	42.12	(0.24)	0.12598	0.89486	-0.89486	539.8	571.4
PM909Q01	Societal	Interpret	PM5,PMUH	89.34	(0.14)	-2.56225			346.1	
PM909Q02	Societal	Employ	PM5,PMUH	63.12	(0.23)	-0.69123			491.9	
PM909Q03	Societal	Interpret	PM5,PMUH	35.70	(0.23)	0.76662			605.5	
PM915Q01	Societal	Employ	PM4,PMUH	40.18	(0.23)	0.38327			575.6	
PM915Q02	Societal	Employ	PM4,PMUH	68.24	(0.23)	-1.20630			451.8	
PM918Q01	Societal	Interpret	PM6A	87.27	(0.15)	-2.54294			347.7	
PM918Q02	Societal	Interpret	PM6A	79.54	(0.19)	-1.67876			415.0	
PM918Q05	Societal	Employ	PM6A	76.67	(0.20)	-1.50962			428.2	
PM919Q01	Personal	Employ	PM7A	84.51	(0.17)	-2.04272			386.6	
PM919Q02	Personal	Formulate	PM7A	44.72	(0.23)	0.21442			562.4	
PM923Q01	Scientific	Employ	PM6A	59.49	(0.23)	-0.43663			511.7	
PM923Q03	Scientific	Employ	PM6A	49.79	(0.23)	-0.09349			538.5	
PM923Q04	Scientific	Formulate	PM6A	15.28	(0.17)	2.00671			702.1	
PM924Q02	Personal	Formulate	PM6A	63.45	(0.23)	-0.72737			489.1	
PM934Q01	Societal	Employ	PM6B	15.96	(0.03)	0.59702			592.3	

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Table A.1 PISA 2012 Main Survey mathematics item classification

Unit Item Code	Unit Name	Source	Language of submission	Item Format	Content
PM934Q02	"MATH - P2012 London Eye Q2"	Mathematics Expert Group	English	Simple Multiple Choice	Space and shape
PM936Q01	"MATH - P2012 Seats In A Theatre Q1"	Mathematics Expert Group	English	Constructed Response Manual	Change and relationships
PM936Q02	"MATH - P2012 Seats In A Theatre Q2"	Mathematics Expert Group	English	Constructed Response Expert	Change and relationships
PM939Q01	"MATH - P2012 Racing Q1"	Mathematics Expert Group	English	Simple Multiple Choice	Uncertainty and data
PM939Q02	"MATH - P2012 Racing Q2"	Mathematics Expert Group	English	Simple Multiple Choice	Uncertainty and data
PM942Q01	"MATH - P2012 Climbing Mount Fuji Q1"	ACER	English	Simple Multiple Choice	Quantity
PM942Q02	"MATH - P2012 Climbing Mount Fuji Q2"	ACER	English	Constructed Response Expert	Change and relationships
PM942Q03	"MATH - P2012 Climbing Mount Fuji Q3"	ACER	English	Constructed Response Manual	Quantity
PM943Q01	"MATH - P2012 Arches Q1"	ACER	English	Simple Multiple Choice	Change and relationships
PM943Q02	"MATH - P2012 Arches Q2"	ACER	English	Constructed Response Expert	Space and shape
PM948Q01	"MATH - P2012 Part-Time Work Q1"	ACER	English	Simple Multiple Choice	Quantity
PM948Q02	"MATH - P2012 Part-Time Work Q2"	ACER	English	Constructed Response Manual	Quantity
PM948Q03	"MATH - P2012 Part-Time Work Q3"	ACER	English	Constructed Response Expert	Quantity
PM949Q01T	"MATH - P2012 Roof Truss Design Q1"	ACER	English	Complex Multiple Choice	Space and shape
PM949Q02T	"MATH - P2012 Roof Truss Design Q2"	ACER	English	Complex Multiple Choice	Space and shape
PM949Q03	"MATH - P2012 Roof Truss Design Q3"	ACER	English	Constructed Response Expert	Space and shape
PM953Q02	"MATH - P2012 Flu Test Q2"	University of Melbourne	English	Constructed Response Expert	Uncertainty and data
PM953Q03	"MATH - P2012 Flu Test Q3"	University of Melbourne	English	Constructed Response Manual	Uncertainty and data
PM953Q04D	"MATH - P2012 Flu Test Q4"	University of Melbourne	English	Constructed Response Expert	Uncertainty and data
PM954Q01	"MATH - P2012 Medicine Doses Q1"	University of Melbourne	English	Constructed Response Manual	Change and relationships
PM954Q02	"MATH - P2012 Medicine Doses Q2"	University of Melbourne	English	Constructed Response Expert	Change and relationships
PM954Q04	"MATH - P2012 Medicine Doses Q4"	University of Melbourne	English	Constructed Response Expert	Change and relationships
PM955Q01	"MATH - P2012 Migration Q1"	University of Melbourne	English	Constructed Response Manual	Uncertainty and data
PM955Q02	"MATH - P2012 Migration Q2"	University of Melbourne	English	Constructed Response Expert	Uncertainty and data
PM955Q03	"MATH - P2012 Migration Q3"	University of Melbourne	English	Constructed Response Expert	Uncertainty and data
PM957Q01	"MATH - P2012 Helen The Cyclist Q1"	University of Melbourne	English	Simple Multiple Choice	Change and relationships
PM957Q02	"MATH - P2012 Helen The Cyclist Q2"	University of Melbourne	English	Simple Multiple Choice	Change and relationships
PM957Q03	"MATH - P2012 Helen The Cyclist Q3"	University of Melbourne	English	Constructed Response Manual	Change and relationships
PM961Q02	"MATH - P2012 Chocolate Q2"	IPN/Kassel	English	Constructed Response Expert	Change and relationships
PM961Q03	"MATH - P2012 Chocolate Q3"	IPN/Kassel	English	Simple Multiple Choice	Change and relationships
PM961Q05	"MATH - P2012 Chocolate Q5"	IPN/Kassel	English	Constructed Response Expert	Uncertainty and data
PM967Q01	"MATH - P2012 Wooden Train Set Q1"	IPN/Kassel	English	Constructed Response Manual	Space and shape
PM967Q03T	"MATH - P2012 Wooden Train Set Q3"	IPN/Kassel	English	Complex Multiple Choice	Space and shape
PM982Q01	"MATH - P2012 Employment Data Q1"	ACER	English	Constructed Response Manual	Uncertainty and data
PM982Q02	"MATH - P2012 Employment Data Q2"	ACER	English	Constructed Response Manual	Uncertainty and data
PM982Q03T	"MATH - P2012 Employment Data Q3"	ACER	English	Complex Multiple Choice	Uncertainty and data
PM982Q04	"MATH - P2012 Employment Data Q4"	ACER	English	Simple Multiple Choice	Uncertainty and data
PM985Q01	"MATH - P2012 Which Car Q1"	ACER	English	Simple Multiple Choice	Uncertainty and data
PM985Q02	"MATH - P2012 Which Car Q2"	ACER	English	Simple Multiple Choice	Quantity
PM985Q03	"MATH - P2012 Which Car Q3"	ACER	English	Constructed Response Manual	Quantity
PM991Q01	"MATH - P2012 Garage Q1"	France	English	Simple Multiple Choice	Space and shape
PM991Q02D	"MATH - P2012 Garage Q2"	France	English	Constructed Response Expert	Space and shape
PM992Q01	"MATH - P2012 Spacers Q1"	France	English	Constructed Response Manual	Space and shape
PM992Q02	"MATH - P2012 Spacers Q2"	France	English	Constructed Response Manual	Space and shape
PM992Q03	"MATH - P2012 Spacers Q3"	France	English	Constructed Response Expert	Change and relationships
PM995Q01	"MATH - P2012 Revolving Door Q1"	ILS	English	Constructed Response Manual	Space and shape
PM995Q02	"MATH - P2012 Revolving Door Q2"	ILS	English	Constructed Response Expert	Space and shape
PM995Q03	"MATH - P2012 Revolving Door Q3"	ILS	English	Simple Multiple Choice	Quantity
PM998Q02	"MATH - P2012 Bike Rental Q2"	Israel	English	Constructed Response Manual	Change and relationships
PM998Q04T	"MATH - P2012 Bike Rental Q4"	Israel	English	Complex Multiple Choice	Change and relationships



[Part 4/4]  
Table A.1 PISA 2012 Main Survey mathematics item classification

Unit Item Code	Context	Process	Cluster	International % correct	S.E. % correct	Item parameters (RP=0.50)			Thresholds (RP=0.62) PISA scale	
						Delta	Tau(1)	Tau(2)	1	2
PM934Q02	Societal	Formulate	PM6B	43.60	(0.05)	-0.83074			481.0	
PM936Q01	Occupational	Employ	PM7B	28.95	(0.05)	-0.64450			495.5	
PM936Q02	Occupational	Formulate	PM7B	30.36	(0.04)	-0.47460			508.8	
PM939Q01	Societal	Interpret	PM7B	45.71	(0.04)	-0.94709			472.0	
PM939Q02	Societal	Interpret	PM7B	38.14	(0.05)	-0.38637			515.6	
PM942Q01	Societal	Formulate	PM6B	46.93	(0.05)	-1.04973			464.0	
PM942Q02	Societal	Formulate	PM6B	14.25	(0.03)	1.23043			641.6	
PM942Q03	Societal	Employ	PM6B	11.58	(0.03)	0.70467	1.42884	-1.42884	591.3	610.0
PM943Q01	Occupational	Formulate	PM7A	50.02	(0.24)	-0.18842			531.1	
PM943Q02	Occupational	Formulate	PM7A	5.29	(0.11)	3.07526			785.3	
PM948Q01	Occupational	Interpret	PM7B	85.91	(0.03)	-2.79957			327.7	
PM948Q02	Occupational	Employ	PM7B	64.13	(0.05)	-1.73697			410.5	
PM948Q03	Occupational	Employ	PM7B	8.84	(0.02)	1.76132			683.0	
PM949Q01T	Occupational	Employ	PM5,PMUH	67.51	(0.23)	-1.00898			467.2	
PM949Q02T	Occupational	Employ	PM5,PMUH	31.74	(0.23)	0.62188			594.2	
PM949Q03	Occupational	Formulate	PM5,PMUH	32.55	(0.23)	0.45241	2.35997	-2.35997	577.3	584.7
PM953Q02	Scientific	Interpret	PM7A	49.76	(0.24)	0.00698			546.3	
PM953Q03	Scientific	Formulate	PM7A	51.80	(0.25)	-0.12631			536.0	
PM953Q04D	Scientific	Formulate	PM7A	18.21	(0.18)	1.46739	0.83011	-0.83011	643.2	676.9
PM954Q01	Scientific	Employ	PM7A	65.40	(0.23)	-1.00422			467.6	
PM954Q02	Scientific	Employ	PM7A	33.56	(0.23)	0.88774			614.9	
PM954Q04	Scientific	Employ	PM7A	26.35	(0.21)	1.26195			644.1	
PM955Q01	Societal	Interpret	PM5	72.12	(0.21)	-1.21749			450.9	
PM955Q02	Societal	Interpret	PM5	34.21	(0.23)	0.66748			597.7	
PM955Q03	Societal	Employ	PM5	11.98	(0.15)	1.81095	0.98867	-0.98867	672.4	701.3
PM957Q01	Personal	Employ	PM6B	52.91	(0.05)	-1.35141			440.5	
PM957Q02	Personal	Employ	PM6B	36.86	(0.04)	-0.45100			510.6	
PM957Q03	Personal	Employ	PM6B	5.75	(0.02)	1.93528			696.6	
PM961Q02	Occupational	Employ	PM7B	4.21	(0.02)	2.20028			717.1	
PM961Q03	Scientific	Employ	PM7B	44.68	(0.05)	-0.81403			482.4	
PM961Q05	Occupational	Interpret	PM7B	42.76	(0.04)	-0.75782	-0.00894	0.00894	449.0	524.6
PM967Q01	Personal	Employ	PM7B	30.21	(0.05)	0.08827			552.6	
PM967Q03T	Personal	Formulate	PM7B	7.03	(0.03)	1.66062			675.2	
PM982Q01	Societal	Employ	PM4	87.30	(0.16)	-2.48212			352.4	
PM982Q02	Societal	Employ	PM4	30.73	(0.21)	0.81899			609.6	
PM982Q03T	Societal	Interpret	PM4	64.95	(0.23)	-1.00060			467.8	
PM982Q04	Societal	Formulate	PM4	51.45	(0.24)	-0.17651			532.0	
PM985Q01	Personal	Interpret	PM6B	81.14	(0.03)	-2.79792			327.8	
PM985Q02	Personal	Employ	PM6B	37.48	(0.05)	-0.70435			490.9	
PM985Q03	Personal	Employ	PM6B	25.56	(0.04)	0.08777			552.6	
PM991Q01	Occupational	Interpret	PM6B	65.14	(0.05)	-1.62018			419.6	
PM991Q02D	Occupational	Employ	PM6B	2.66	(0.01)	1.66230	1.16523	-1.16523	663.2	687.3
PM992Q01	Occupational	Formulate	PM4,PMUH	77.60	(0.20)	-1.75452			409.1	
PM992Q02	Occupational	Formulate	PM4,PMUH	18.25	(0.19)	1.62983			672.7	
PM992Q03	Occupational	Formulate	PM4,PMUH	8.11	(0.14)	2.63540			751.1	
PM995Q01	Scientific	Employ	PM6A	57.67	(0.25)	-0.42930			512.3	
PM995Q02	Scientific	Formulate	PM6A	3.47	(0.08)	3.78162			840.3	
PM995Q03	Scientific	Formulate	PM6A	46.42	(0.24)	0.19919			561.3	
PM998Q02	Personal	Interpret	PM5	71.57	(0.21)	-1.08005			461.6	
PM998Q04T	Personal	Employ	PM5	40.44	(0.23)	0.29426			568.7	

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Table A.2 PISA 2012 Main Survey reading item classification

Unit Item Code	Unit Name	Source	Language of submission	Item Format	Situation
PR220Q01	"READ - P2000 South Pole Q1"	France	French	Constructed Response Expert	Educational
PR220Q02B	"READ - P2000 South Pole Q2B"	France	French	Simple Multiple Choice	Educational
PR220Q04	"READ - P2000 South Pole Q4"	France	French	Simple Multiple Choice	Educational
PR404Q03	"READ - P2009 Sleep Q3"	ILS	Norwegian	Simple Multiple Choice	Public
PR404Q06	"READ - P2009 Sleep Q6"	ILS	Norwegian	Simple Multiple Choice	Public
PR404Q07T	"READ - P2009 Sleep Q7"	ILS	Norwegian	Complex Multiple Choice	Public
PR404Q10A	"READ - P2009 Sleep Q10A"	ILS	Norwegian	Constructed Response Expert	Public
PR404Q10B	"READ - P2009 Sleep Q10B"	ILS	Norwegian	Constructed Response Expert	Public
PR406Q01	"READ - P2009 Kokeshi Dolls Q1"	NIER	Japanese	Constructed Response Expert	Personal
PR406Q02	"READ - P2009 Kokeshi Dolls Q2"	NIER	Japanese	Constructed Response Expert	Personal
PR406Q05	"READ - P2009 Kokeshi Dolls Q5"	NIER	Japanese	Constructed Response Expert	Personal
PR412Q01	"READ - P2009 World Languages Q1"	ACER	English	Simple Multiple Choice	Educational
PR412Q05	"READ - P2009 World Languages Q5"	ACER	English	Simple Multiple Choice	Educational
PR412Q06T	"READ - P2009 World Languages Q6"	ACER	English	Complex Multiple Choice	Educational
PR412Q08	"READ - P2009 World Languages Q8"	ACER	English	Constructed Response Expert	Educational
PR420Q02	"READ - P2009 Childrens Futures Q2"	NIER	Japanese	Constructed Response Manual	Educational
PR420Q06	"READ - P2009 Childrens Futures Q6"	NIER	Japanese	Constructed Response Expert	Educational
PR420Q09	"READ - P2009 Childrens Futures Q9"	NIER	Japanese	Constructed Response Manual	Educational
PR420Q10	"READ - P2009 Childrens Futures Q10"	NIER	Japanese	Constructed Response Expert	Educational
PR424Q02T	"READ - P2009 Fair Trade Q2"	aSPe	French	Complex Multiple Choice	Educational
PR424Q03	"READ - P2009 Fair Trade Q3"	aSPe	French	Simple Multiple Choice	Educational
PR424Q07	"READ - P2009 Fair Trade Q7"	aSPe	French	Simple Multiple Choice	Educational
PR432Q01	"READ - P2009 About a book Q1"	DIPF	German	Constructed Response Manual	Personal
PR432Q05	"READ - P2009 About a book Q5"	DIPF	German	Constructed Response Expert	Personal
PR432Q06T	"READ - P2009 About a book Q6"	DIPF	German	Complex Multiple Choice	Personal
PR437Q01	"READ - P2009 Narcissus Q1"	Sweden	Portuguese	Simple Multiple Choice	Personal
PR437Q06	"READ - P2009 Narcissus Q6"	Sweden	Portuguese	Simple Multiple Choice	Personal
PR437Q07	"READ - P2009 Narcissus Q7"	Sweden	Portuguese	Constructed Response Expert	Personal
PR446Q03	"READ - P2009 Job Vacancy Q3"	ACER	English	Constructed Response Manual	Occupational
PR446Q06	"READ - P2009 Job Vacancy Q6"	ACER	English	Constructed Response Expert	Occupational
PR453Q01	"READ - P2009 Find Summer Job Q1"	Finland	Finnish	Simple Multiple Choice	Occupational
PR453Q04	"READ - P2009 Find Summer Job Q4"	Finland	Finnish	Constructed Response Expert	Occupational
PR453Q05T	"READ - P2009 Find Summer Job Q5"	Finland	Finnish	Complex Multiple Choice	Occupational
PR453Q06	"READ - P2009 Find Summer Job Q6"	Finland	Finnish	Constructed Response Expert	Occupational
PR455Q02	"READ - P2009 Chocolate and Health Q2"	New Zealand	English	Constructed Response Expert	Personal
PR455Q03	"READ - P2009 Chocolate and Health Q3"	New Zealand	English	Constructed Response Manual	Personal
PR455Q04	"READ - P2009 Chocolate and Health Q4"	New Zealand	English	Simple Multiple Choice	Personal
PR455Q05T	"READ - P2009 Chocolate and Health Q5"	New Zealand	English	Complex Multiple Choice	Personal
PR456Q01	"READ - P2009 Biscuits Q1"	Serbia	English	Simple Multiple Choice	Personal
PR456Q02	"READ - P2009 Biscuits Q2"	Serbia	English	Constructed Response Expert	Personal
PR456Q06	"READ - P2009 Biscuits Q6"	Serbia	English	Constructed Response Expert	Personal
PR466Q02	"READ - P2009 Work Right Q2"	aSPe	French	Constructed Response Expert	Occupational
PR466Q03T	"READ - P2009 Work Right Q3"	aSPe	French	Complex Multiple Choice	Occupational
PR466Q06	"READ - P2009 Work Right Q6"	aSPe	French	Constructed Response Manual	Occupational



[Part 2/2]

Table A.2 PISA 2012 Main Survey reading item classification

Unit Item Code	Scale		Aspect	Cluster	International % correct	S.E. % correct	Item parameters (RP=0.50)			Thresholds (RP=0.62) PISA scale	
	Text Format	Text Type					Delta	Tau(1)	Tau(2)	1	2
PR220Q01	Mixed	Exposition	Access and retrieve	PR3	38.53	(0.24)	1.40904			694.1	
PR220Q02B	Mixed	Exposition	Integrate and interpret	PR3	60.99	(0.24)	0.07003			586.7	
PR220Q04	Continuous	Exposition	Integrate and interpret	PR3	57.67	(0.24)	0.27950			603.4	
PR404Q03	Continuous	Exposition	Integrate and interpret	PR1	74.00	(0.22)	-0.87766			510.6	
PR404Q06	Non-continuous	Exposition	Integrate and interpret	PR1	50.08	(0.23)	0.58923			628.3	
PR404Q07T	Non-continuous	Exposition	Integrate and interpret	PR1	36.46	(0.22)	1.40667			694.0	
PR404Q10A	Non-continuous	Exposition	Reflect and evaluate	PR1	46.58	(0.24)	0.85188			649.4	
PR404Q10B	Non-continuous	Exposition	Reflect and evaluate	PR1	37.39	(0.23)	1.21553			678.6	
PR406Q01	Continuous	Narration	Integrate and interpret	PR1	65.61	(0.24)	-0.42613			546.9	
PR406Q02	Continuous	Narration	Integrate and interpret	PR1	34.72	(0.22)	1.11002			670.1	
PR406Q05	Continuous	Narration	Integrate and interpret	PR1	74.11	(0.21)	-0.74389			521.3	
PR412Q01	Non-continuous	Exposition	Access and retrieve	PR2	85.36	(0.16)	-1.64252			449.2	
PR412Q05	Continuous	Exposition	Integrate and interpret	PR2	58.34	(0.23)	0.09273			588.5	
PR412Q06T	Continuous	Exposition	Integrate and interpret	PR2	38.98	(0.22)	0.89309			652.7	
PR412Q08	Mixed	Exposition	Integrate and interpret	PR2	36.84	(0.23)	1.22161			679.1	
PR420Q02	Non-continuous	Exposition	Access and retrieve	PR2	84.57	(0.17)	-1.41503			467.5	
PR420Q06	Non-continuous	Exposition	Reflect and evaluate	PR2	45.28	(0.22)	0.71132			638.1	
PR420Q09	Non-continuous	Exposition	Access and retrieve	PR2	76.53	(0.19)	-1.07532			494.8	
PR420Q10	Non-continuous	Exposition	Integrate and interpret	PR2	73.48	(0.21)	-0.36037	2.01069	-2.01069	546.8	557.5
PR424Q02T	Non-continuous	Argumentation	Integrate and interpret	PR1	44.17	(0.24)	0.85301			649.5	
PR424Q03	Non-continuous	Argumentation	Reflect and evaluate	PR1	65.46	(0.22)	-0.30577			556.5	
PR424Q07	Continuous	Argumentation	Reflect and evaluate	PR1	76.25	(0.20)	-1.03249			498.2	
PR432Q01	Continuous	Argumentation	Integrate and interpret	PR3	85.88	(0.16)	-1.50920			459.9	
PR432Q05	Multiple	Argumentation	Reflect and evaluate	PR3	75.72	(0.21)	-0.52250			539.2	
PR432Q06T	Continuous	Argumentation	Integrate and interpret	PR3	14.99	(0.16)	2.88148			812.4	
PR437Q01	Continuous	Narration	Integrate and interpret	PR2	52.14	(0.23)	0.35405			609.5	
PR437Q06	Continuous	Narration	Integrate and interpret	PR2	53.72	(0.22)	0.29842			605.0	
PR437Q07	Continuous	Narration	Integrate and interpret	PR2	14.84	(0.16)	2.38872			772.8	
PR446Q03	Non-continuous	Description	Access and retrieve	PR3	92.93	(0.13)	-2.32901			394.1	
PR446Q06	Non-continuous	Description	Reflect and evaluate	PR3	77.56	(0.20)	-0.82754			514.7	
PR453Q01	Continuous	Instruction	Integrate and interpret	PR2	82.07	(0.18)	-1.14369			489.2	
PR453Q04	Continuous	Instruction	Reflect and evaluate	PR2	62.36	(0.22)	-0.06473			575.9	
PR453Q05T	Continuous	Instruction	Access and retrieve	PR2	63.34	(0.23)	0.02273			582.8	
PR453Q06	Continuous	Instruction	Reflect and evaluate	PR2	72.03	(0.21)	-0.37494			551.0	
PR455Q02	Continuous	Description	Reflect and evaluate	PR1,PRUH	38.52	(0.23)	1.24380			680.9	
PR455Q03	Continuous	Description	Access and retrieve	PR1,PRUH	76.07	(0.21)	-1.17540			486.7	
PR455Q04	Continuous	Description	Integrate and interpret	PR1,PRUH	63.26	(0.23)	-0.21940			563.4	
PR455Q05T	Continuous	Description	Integrate and interpret	PR1,PRUH	26.08	(0.22)	1.98631			740.4	
PR456Q01	Continuous	Narration	Access and retrieve	PR3,PRUH	96.22	(0.09)	-3.33252			313.6	
PR456Q02	Continuous	Narration	Integrate and interpret	PR3,PRUH	83.50	(0.17)	-1.33872			473.6	
PR456Q06	Continuous	Narration	Integrate and interpret	PR3,PRUH	83.79	(0.18)	-1.47870			462.4	
PR466Q02	Continuous	Argumentation	Access and retrieve	PR3	44.35	(0.24)	0.80882			646.0	
PR466Q03T	Mixed	Argumentation	Integrate and interpret	PR3	16.98	(0.18)	2.63235			792.3	
PR466Q06	Continuous	Argumentation	Access and retrieve	PR3	81.43	(0.19)	-1.12481			490.8	

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Table A.3 PISA 2012 Main Survey science item classification

Unit Item Code	Unit Name	Source	Language of submission	Item Format	Application Area	Item Focus
PS131Q02D	"SCIE - P2000 Good Vibrations Q2"	ACER	English	Constructed Response Expert	Health	Social
PS131Q04D	"SCIE - P2006 Good Vibrations Q4"	ACER	English	Constructed Response Expert	Health	Social
PS256Q01	"SCIE - P2000 Spoons Q1"	TIMSS	English	Simple Multiple Choice	Frontiers	Personal
PS269Q01	"SCIE - P2000 Earths Temperature Q1"	CITO	Dutch	Constructed Response Expert	Hazards	Global
PS269Q03D	"SCIE - P2000 Earths Temperature Q3"	CITO	Dutch	Constructed Response Expert	Hazards	Global
PS269Q04T	"SCIE - P2000 Earths Temperature Q4"	CITO	Dutch	Complex Multiple Choice	Natural resources	Global
PS326Q01	"SCIE - P2003 Milk Q1"	CITO	Dutch	Constructed Response Expert	Health	Personal
PS326Q02	"SCIE - P2003 Milk Q2"	CITO	Dutch	Constructed Response Expert	Health	Personal
PS326Q03	"SCIE - P2003 Milk Q3"	CITO	Dutch	Simple Multiple Choice	Health	Personal
PS326Q04T	"SCIE - P2003 Milk Q4"	CITO	Dutch	Complex Multiple Choice	Health	Personal
PS408Q01	"SCIE - P2006 Wild Oat Grass Q1"	ILS	Norwegian	Simple Multiple Choice	Natural resources	Social
PS408Q03	"SCIE - P2006 Wild Oat Grass Q3"	ILS	Norwegian	Constructed Response Expert	Natural resources	Social
PS408Q04T	"SCIE - P2006 Wild Oat Grass Q4"	ILS	Norwegian	Complex Multiple Choice	Natural resources	Social
PS408Q05	"SCIE - P2006 Wild Oat Grass Q5"	ILS	Norwegian	Simple Multiple Choice	Natural resources	Social
PS413Q04T	"SCIE - P2006 Plastic Age Q4"	IPN	German	Complex Multiple Choice	Frontiers	Social
PS413Q05	"SCIE - P2006 Plastic Age Q5"	IPN	German	Simple Multiple Choice	Frontiers	Social
PS413Q06	"SCIE - P2006 Plastic Age Q6"	IPN	German	Constructed Response Manual	Frontiers	Personal
PS415Q02	"SCIE - P2006 Solar Panels Q2"	NIER	Japanese	Simple Multiple Choice	Natural resources	Global
PS415Q07T	"SCIE - P2006 Solar Panels Q7"	ACER	English	Complex Multiple Choice	Natural resources	Personal
PS415Q08T	"SCIE - P2006 Solar Panels Q8"	ACER	English	Complex Multiple Choice	Natural resources	Global
PS425Q02	"SCIE - P2006 Penguin Island Q2"	ACER	English	Simple Multiple Choice	Environment	Social
PS425Q03	"SCIE - P2006 Penguin Island Q3"	ACER	English	Constructed Response Expert	Environment	Social
PS425Q04	"SCIE - P2006 Penguin Island Q4"	ACER	English	Constructed Response Expert	Environment	Social
PS425Q05	"SCIE - P2006 Penguin Island Q5"	ACER	English	Simple Multiple Choice	Environment	Social
PS428Q01	"SCIE - P2006 Bacteria in Milk Q1"	IPN	German	Simple Multiple Choice	Natural resources	Social
PS428Q03	"SCIE - P2006 Bacteria in Milk Q3"	IPN	German	Simple Multiple Choice	Natural resources	Social
PS428Q05	"SCIE - P2006 Bacteria in Milk Q5"	IPN	German	Constructed Response Expert	Natural resources	Social
PS438Q01T	"SCIE - P2006 Green Parks Q1"	ACER	English	Complex Multiple Choice	Environment	Social
PS438Q02	"SCIE - P2006 Green Parks Q2"	ACER	English	Simple Multiple Choice	Environment	Social
PS438Q03D	"SCIE - P2006 Green Parks Q3"	ACER	English	Constructed Response Expert	Environment	Social
PS465Q01	"SCIE - P2006 Different Climates Q1"	ILS	Norwegian	Constructed Response Expert	Environment	Global
PS465Q02	"SCIE - P2006 Different Climates Q2"	ILS	Norwegian	Simple Multiple Choice	Environment	Global
PS465Q04	"SCIE - P2006 Different Climates Q4"	ILS	Norwegian	Simple Multiple Choice	Environment	Global
PS466Q01T	"SCIE - P2006 Forest Fires Q1"	ILS	Norwegian	Complex Multiple Choice	Hazards	Social
PS466Q05	"SCIE - P2006 Forest Fires Q5"	ILS	Norwegian	Simple Multiple Choice	Hazards	Social
PS466Q07T	"SCIE - P2006 Forest Fires Q7"	ILS	Norwegian	Complex Multiple Choice	Hazards	Social
PS478Q01	"SCIE - P2006 Antibiotics Q1"	France	French	Simple Multiple Choice	Health	Personal
PS478Q02T	"SCIE - P2006 Antibiotics Q2"	France	French	Complex Multiple Choice	Health	Personal
PS478Q03T	"SCIE - P2006 Antibiotics Q3"	France	French	Complex Multiple Choice	Health	Personal
PS498Q02T	"SCIE - P2006 Experimental Digestion Q2"	France	French	Complex Multiple Choice	Other	Social
PS498Q03	"SCIE - P2006 Experimental Digestion Q3"	France	French	Simple Multiple Choice	Other	Social
PS498Q04	"SCIE - P2006 Experimental Digestion Q4"	France	French	Constructed Response Expert	Other	Social
PS514Q02	"SCIE - P2006 Development and Disaster Q2"	NIER	Japanese	Constructed Response Expert	Hazards	Social
PS514Q03	"SCIE - P2006 Development and Disaster Q3"	NIER	Japanese	Constructed Response Expert	Hazards	Social
PS514Q04	"SCIE - P2006 Development and Disaster Q4"	NIER	Japanese	Constructed Response Manual	Hazards	Social
PS519Q01	"SCIE - P2006 Airbags Q1"	France	French	Constructed Response Expert	Frontiers	Social
PS519Q02T	"SCIE - P2006 Airbags Q2"	France	French	Complex Multiple Choice	Frontiers	Social
PS519Q03	"SCIE - P2006 Airbags Q3"	France	French	Constructed Response Expert	Frontiers	Social
PS521Q02	"SCIE - P2006 Cooking Outdoors Q2"	ACER	English	Simple Multiple Choice	Frontiers	Personal
PS521Q06	"SCIE - P2006 Cooking Outdoors Q6"	ACER	English	Simple Multiple Choice	Frontiers	Personal
PS527Q01T	"SCIE - P2006 Extinction of the Dinosaurs Q1"	Korea	Korean	Complex Multiple Choice	Frontiers	Global
PS527Q03T	"SCIE - P2006 Extinction of the Dinosaurs Q3"	Korea	Korean	Complex Multiple Choice	Frontiers	Global
PS527Q04T	"SCIE - P2006 Extinction of the Dinosaurs Q4"	Korea	Korean	Complex Multiple Choice	Frontiers	Global



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Table A.3 PISA 2012 Main Survey science item classification

Unit Item Code	Competency	Cluster	International % correct	S.E. % correct	Item parameters (RP=0.50)			Thresholds (RP=0.62) PISA scale	
					Delta	Tau(1)	Tau(2)	1	2
PS131Q02D	Using scientific evidence	PS3	49.41	(0.24)	0.34149			562.2	
PS131Q04D	Identifying scientific issues	PS3	28.02	(0.21)	1.31699			653.1	
PS256Q01	Explaining phenomena scientifically	PS2,PSUH	88.43	(0.15)	-2.32693			313.3	
PS269Q01	Explaining phenomena scientifically	PS1	56.94	(0.23)	-0.21324			510.4	
PS269Q03D	Explaining phenomena scientifically	PS1	43.44	(0.24)	0.47905			575.0	
PS269Q04T	Explaining phenomena scientifically	PS1	35.19	(0.22)	0.90179			614.4	
PS326Q01	Using scientific evidence	PS2	58.15	(0.23)	-0.28883			503.4	
PS326Q02	Using scientific evidence	PS2	63.64	(0.24)	-0.33764			498.8	
PS326Q03	Using scientific evidence	PS2	60.97	(0.23)	-0.18199			513.3	
PS326Q04T	Explaining phenomena scientifically	PS2	26.60	(0.21)	1.44852			665.3	
PS408Q01	Explaining phenomena scientifically	PS1	61.48	(0.23)	-0.43304			489.9	
PS408Q03	Explaining phenomena scientifically	PS1	28.67	(0.20)	1.19253			641.5	
PS408Q04T	Explaining phenomena scientifically	PS1	52.79	(0.22)	0.00221			530.5	
PS408Q05	Identifying scientific issues	PS1	42.19	(0.22)	0.47893			575.0	
PS413Q04T	Using scientific evidence	PS2	43.75	(0.23)	0.53138			579.8	
PS413Q05	Using scientific evidence	PS2	68.27	(0.22)	-0.86374			449.7	
PS413Q06	Explaining phenomena scientifically	PS2	40.31	(0.24)	0.70571			596.1	
PS415Q02	Explaining phenomena scientifically	PS3	77.95	(0.20)	-1.20447			418.0	
PS415Q07T	Identifying scientific issues	PS3	74.36	(0.21)	-0.89484			446.8	
PS415Q08T	Identifying scientific issues	PS3	59.95	(0.24)	-0.18820			512.8	
PS425Q02	Using scientific evidence	PS2	49.04	(0.25)	0.19136			548.1	
PS425Q03	Explaining phenomena scientifically	PS2	43.07	(0.23)	0.41430			568.9	
PS425Q04	Using scientific evidence	PS2	28.92	(0.22)	1.32550			653.9	
PS425Q05	Identifying scientific issues	PS2	68.38	(0.21)	-0.66175			468.6	
PS428Q01	Using scientific evidence	PS3,PSUH	61.46	(0.23)	-0.28896			503.4	
PS428Q03	Using scientific evidence	PS3,PSUH	74.31	(0.21)	-0.92135			444.4	
PS428Q05	Explaining phenomena scientifically	PS3,PSUH	46.37	(0.24)	0.41594			569.1	
PS438Q01T	Identifying scientific issues	PS3	82.88	(0.18)	-1.37034			402.6	
PS438Q02	Identifying scientific issues	PS3	66.66	(0.23)	-0.53754			480.1	
PS438Q03D	Identifying scientific issues	PS3	38.55	(0.24)	0.95762			619.6	
PS465Q01	Using scientific evidence	PS3	47.85	(0.21)	0.40387	0.03760	-0.03760	524.6	611.3
PS465Q02	Explaining phenomena scientifically	PS3	59.65	(0.23)	-0.18291			513.2	
PS465Q04	Explaining phenomena scientifically	PS3	36.90	(0.22)	0.77485			602.6	
PS466Q01T	Identifying scientific issues	PS1,PSUH	73.61	(0.21)	-0.87507			448.7	
PS466Q05	Using scientific evidence	PS1,PSUH	53.44	(0.23)	-0.05052			525.5	
PS466Q07T	Identifying scientific issues	PS1,PSUH	70.08	(0.21)	-0.79338			456.4	
PS478Q01	Explaining phenomena scientifically	PS2	44.71	(0.22)	0.41446			568.9	
PS478Q02T	Using scientific evidence	PS2	55.83	(0.24)	0.01756			532.0	
PS478Q03T	Explaining phenomena scientifically	PS2	70.35	(0.20)	-0.78431			457.2	
PS498Q02T	Identifying scientific issues	PS2	45.07	(0.23)	0.30482			558.7	
PS498Q03	Identifying scientific issues	PS2	38.64	(0.22)	0.56938			583.4	
PS498Q04	Using scientific evidence	PS2	63.91	(0.23)	-0.30115	0.97189	-0.97189	484.7	519.8
PS514Q02	Using scientific evidence	PS3	84.82	(0.18)	-1.52005			388.6	
PS514Q03	Explaining phenomena scientifically	PS3	46.42	(0.23)	0.44292			571.6	
PS514Q04	Using scientific evidence	PS3	57.80	(0.24)	-0.14639			516.7	
PS519Q01	Using scientific evidence	PS1	37.73	(0.20)	0.59545	0.28465	-0.28465	551.6	620.1
PS519Q02T	Explaining phenomena scientifically	PS1	55.21	(0.23)	-0.09256			521.6	
PS519Q03	Identifying scientific issues	PS1	25.57	(0.20)	1.34784			656.0	
PS521Q02	Explaining phenomena scientifically	PS1	53.30	(0.22)	-0.01855			528.5	
PS521Q06	Explaining phenomena scientifically	PS1	88.78	(0.15)	-2.12856			331.8	
PS527Q01T	Using scientific evidence	PS1	17.46	(0.17)	2.04093			720.6	
PS527Q03T	Explaining phenomena scientifically	PS1	57.62	(0.23)	-0.08024			522.8	
PS527Q04T	Explaining phenomena scientifically	PS1	54.87	(0.23)	0.07115			536.9	



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Table A.4 PISA 2012 Main Survey digital reading item classification

Unit Item Code	Unit Name	Source	Language of submission	Item Format	Situation	Text Format	Text Type
CR002Q01	Seraing	aSPe	French	Simple Multiple Choice	Public	Non-continuous	Description
CR002Q03	Seraing	aSPe	French	Simple Multiple Choice	Public	Multiple	Description
CR002Q05	Seraing	aSPe	French	Constructed Response Expert	Personal	Multiple	Transaction
CR011Q01A	Cinema	ACER	English	Selected Response Variations	Personal	Multiple	Transaction
CR011Q01B	Cinema	ACER	English	Constructed Response Auto-coded	Personal	Multiple	Transaction
CR013Q01	Sports Club	DIPF	German	Simple Multiple Choice	Personal	Multiple	Transaction
CR013Q04	Sports Club	DIPF	German	Simple Multiple Choice	Personal	Multiple	Argumentation
CR013Q07	Sports Club	DIPF	German	Constructed Response Expert	Personal	Multiple	Argumentation
CR014Q01	Hay Fever	DIPF	German	Constructed Response Expert	Public	Non-continuous	Description
CR014Q06	Hay Fever	DIPF	German	Simple Multiple Choice	Public	Multiple	Exposition
CR014Q07	Hay Fever	DIPF	German	Simple Multiple Choice	Public	Multiple	Description
CR014Q11	Hay Fever	DIPF	German	Simple Multiple Choice	Public	Multiple	Exposition
CR017Q01	Language Learning	DIPF	German	Simple Multiple Choice	Educational	Continuous	Argumentation
CR017Q04	Language Learning	DIPF	German	Simple Multiple Choice	Educational	Multiple	Argumentation
CR017Q07	Language Learning	DIPF	German	Constructed Response Expert	Educational	Multiple	Argumentation
CR021Q01	Counterfeiting	Canada	English/French	Simple Multiple Choice	Public	Mixed	Exposition
CR021Q04	Counterfeiting	Canada	English/French	Simple Multiple Choice	Public	Multiple	Exposition
CR021Q05	Counterfeiting	Canada	English/French	Simple Multiple Choice	Public	Multiple	Exposition
CR021Q08	Counterfeiting	Canada	English/French	Constructed Response Expert	Public	Multiple	Exposition

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Table A.4 PISA 2012 Main Survey digital reading item classification

Unit Item Code	Aspect	Environment	Cluster	International % correct	S.E. % correct	Item parameters (RP=0.50)				Thresholds (RP=0.62) PISA scale		
						Delta	Tau(1)	Tau(2)	Tau(3)	1	2	3
CR002Q01	Access and retrieve	Authored	CR2	93.85	(0.15)	-2.78159				247.8		
CR002Q03	Access and retrieve	Authored	CR2	81.06	(0.25)	-1.24934				381.9		
CR002Q05	Complex	Mixed	CR2	45.48	(0.30)	0.76767	1.36902	-1.36902		547.4	569.6	
CR011Q01A	Complex	Message-based	CR1	71.42	(0.29)	-0.52991				444.9		
CR011Q01B	Complex	Message-based	CR1	69.12	(0.26)	-0.17018	0.33163	-0.33163		445.6	507.2	
CR013Q01	Integrate and interpret	Message-based	CR2	67.71	(0.29)	-0.31371				463.9		
CR013Q04	Access and retrieve	Authored	CR2	65.21	(0.29)	-0.12498				480.3		
CR013Q07	Complex	Authored	CR2	45.93	(0.29)	0.71723	0.75550	-0.75550		533.6	574.4	
CR014Q01	Reflect and evaluate	Authored	CR1	45.78	(0.25)	0.77642	-0.52319	0.52319		492.1	626.3	
CR014Q06	Access and retrieve	Authored	CR1	48.89	(0.31)	0.62422				545.9		
CR014Q07	Integrate and interpret	Authored	CR1	60.93	(0.30)	-0.00166				491.1		
CR014Q11	Integrate and interpret	Authored	CR1	42.50	(0.29)	1.00942				579.7		
CR017Q01	Integrate and interpret	Authored	CR2	52.21	(0.28)	0.67218				550.1		
CR017Q04	Access and retrieve	Message-based	CR2	91.06	(0.18)	-2.05505				311.4		
CR017Q07	Reflect and evaluate	Message-based	CR2	47.20	(0.25)	0.61828	-0.26649	0.26649		491.7	599.1	
CR021Q01	Integrate and interpret	Authored	CR1	57.77	(0.31)	0.19695				508.5		
CR021Q04	Reflect and evaluate	Authored	CR1	70.29	(0.29)	-0.48182				449.2		
CR021Q05	Integrate and interpret	Authored	CR1	63.11	(0.30)	-0.03197				488.5		
CR021Q08	Complex	Authored	CR1	12.54	(0.14)	2.35784	0.39213	-1.13453	0.74200	637.6	669.7	778.8



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Table A.5 PISA 2012 Main Survey computer-based mathematics item classification

Unit Item Code	Unit Name	Source	Language of submission	Item Format	Content	Context
CM002Q01	Cube building	ACER	English	Constructed Response Auto-coded	Space and shape	Personal
CM002Q02	Cube building	ACER	English	Constructed Response Auto-coded	Space and shape	Personal
CM004Q01T	Toast	University of Melbourne	English	Complex Multiple Choice	Space and shape	Personal
CM004Q02T	Toast	University of Melbourne	English	Complex Multiple Choice	Space and shape	Personal
CM004Q03	Toast	University of Melbourne	English	Constructed Response Auto-coded	Space and shape	Personal
CM005Q01	Fit the curve	ACER	English	Constructed Response Auto-coded	Change and relationships	Scientific
CM005Q02	Fit the curve	ACER	English	Simple Multiple Choice	Change and relationships	Scientific
CM005Q03	Fit the curve	ACER	English	Simple Multiple Choice	Change and relationships	Scientific
CM005Q04	Fit the curve	ACER	English	Constructed Response Auto-coded	Change and relationships	Scientific
CM006Q01	Buying online	ACER	English	Constructed Response Auto-coded	Quantity	Personal
CM006Q02	Buying online	ACER	English	Constructed Response Auto-coded	Quantity	Personal
CM006Q03	Buying online	ACER	English	Constructed Response Auto-coded	Quantity	Personal
CM008Q01	Measure	ACER	English	Constructed Response Auto-coded	Space and shape	Societal
CM008Q02	Measure	ACER	English	Constructed Response Auto-coded	Quantity	Societal
CM011Q01T	Train or car	IPN/Kassel	English	Selected Response Variations	Change and relationships	Societal
CM011Q02	Train or car	IPN/Kassel	English	Constructed Response Auto-coded	Change and relationships	Societal
CM011Q03	Train or car	IPN/Kassel	English	Constructed Response Auto-coded	Change and relationships	Societal
CM014Q01	Cotton	ACER	English	Constructed Response Auto-coded	Uncertainty and data	Occupational
CM014Q02	Cotton	ACER	English	Constructed Response Auto-coded	Uncertainty and data	Occupational
CM014Q03T	Cotton	ACER	English	Selected Response Variations	Uncertainty and data	Occupational
CM015Q01	CD production	ACER	English	Simple Multiple Choice	Quantity	Occupational
CM015Q02D	CD production	ACER	English	Constructed Response Auto-coded	Change and relationships	Occupational
CM015Q03D	CD production	ACER	English	Constructed Response Expert	Change and relationships	Occupational
CM016Q01	Shelving library books	ACER	English	Constructed Response Auto-coded	Quantity	Occupational
CM020Q01	Star points	IPN/Kassel	English	Constructed Response Auto-coded	Space and shape	Scientific
CM020Q02	Star points	IPN/Kassel	English	Simple Multiple Choice	Space and shape	Scientific
CM020Q03	Star points	IPN/Kassel	English	Constructed Response Auto-coded	Space and shape	Scientific
CM020Q04	Star points	IPN/Kassel	English	Simple Multiple Choice	Space and shape	Scientific
CM025Q01	Common injuries	ACER	English	Constructed Response Auto-coded	Uncertainty and data	Occupational
CM025Q02T	Common injuries	ACER	English	Selected Response Variations	Uncertainty and data	Occupational
CM028Q03	Shopping calculations	France	French	Constructed Response Expert	Quantity	Personal
CM035Q01	GPS navigation	ACER	English	Simple Multiple Choice	Space and shape	Personal
CM035Q02	GPS navigation	ACER	English	Simple Multiple Choice	Quantity	Personal
CM035Q03	GPS navigation	ACER	English	Simple Multiple Choice	Space and shape	Personal
CM035Q04	GPS navigation	ACER	English	Constructed Response Auto-coded	Quantity	Personal
CM036Q01T	Cherry blossoms	NIER	English	Complex Multiple Choice	Uncertainty and data	Societal
CM036Q02	Cherry blossoms	NIER	English	Constructed Response Auto-coded	Change and relationships	Societal
CM036Q03	Cherry blossoms	NIER	English	Constructed Response Auto-coded	Change and relationships	Societal
CM038Q03T	Body mass index	Macau/Serbia	English	Complex Multiple Choice	Uncertainty and data	Societal
CM038Q05	Body mass index	Macau/Serbia	English	Constructed Response Expert	Uncertainty and data	Societal
CM038Q06	Body mass index	Macau/Serbia	English	Constructed Response Expert	Uncertainty and data	Societal

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Table A.5 PISA 2012 Main Survey computer-based mathematics item classification

Unit Item Code	Process	Cluster	International % correct	S.E. % correct	Item parameters (RP=0.50)			Thresholds (RP=0.62) PISA scale	
					Delta	Tau(1)	Tau(2)	1	2
CM002Q01	Employ	CM1	7.26	(0.15)	2.93353	-1.43002	1.43002	715.1	946.2
CM002Q02	Employ	CM1	32.82	(0.41)	0.11696			611.2	
CM004Q01T	Employ	CM1	40.60	(0.40)	-0.34452			575.2	
CM004Q02T	Employ	CM1	40.87	(0.40)	-0.43833			568.0	
CM004Q03	Formulate	CM1	44.42	(0.43)	-0.62056			553.7	
CM005Q01	Employ	CM4	32.40	(0.39)	0.05162			606.2	
CM005Q02	Employ	CM4	44.22	(0.41)	-0.57781			557.1	
CM005Q03	Employ	CM4	54.47	(0.43)	-1.10376			516.1	
CM005Q04	Employ	CM1	25.28	(0.29)	0.41056	-0.46088	0.46088	577.5	690.7
CM006Q01	Employ	CM1	66.49	(0.41)	-1.62347			475.6	
CM006Q02	Interpret	CM1	44.33	(0.26)	-0.47329	-1.49077	1.49077	445.5	685.0
CM006Q03	Formulate	CM1	22.41	(0.34)	0.57005			646.5	
CM008Q01	Formulate	CM1	23.51	(0.30)	0.31113	0.34202	-0.34202	599.2	653.4
CM008Q02	Formulate	CM3	9.49	(0.25)	1.42612			713.2	
CM011Q01T	Formulate	CM3	66.12	(0.41)	-1.66320			472.6	
CM011Q02	Employ	CM4	6.51	(0.20)	2.10146			765.8	
CM011Q03	Employ	CM4	11.92	(0.27)	1.49726			718.7	
CM014Q01	Employ	CM4	38.08	(0.40)	-0.22421			584.6	
CM014Q02	Employ	CM4	14.42	(0.29)	1.11078			688.6	
CM014Q03T	Employ	CM4	25.44	(0.38)	0.63770			651.8	
CM015Q01	Employ	CM4	59.02	(0.41)	-1.32981			498.5	
CM015Q02D	Formulate	CM2	8.43	(0.22)	1.17048	1.65678	-1.65678	685.8	700.7
CM015Q03D	Interpret	CM2	29.02	(0.33)	0.20264	-0.08940	0.08940	577.2	658.6
CM016Q01	Employ	CM2	64.71	(0.40)	-1.49186			485.9	
CM020Q01	Employ	CM2	29.58	(0.29)	0.31315	-0.61434	0.61434	562.1	690.9
CM020Q02	Employ	CM2	47.42	(0.44)	-0.67743			549.3	
CM020Q03	Employ	CM2	26.91	(0.35)	0.54081			644.2	
CM020Q04	Employ	CM2	44.12	(0.42)	-0.46689			565.7	
CM025Q01	Formulate	CM3	46.27	(0.42)	-0.56288			558.3	
CM025Q02T	Employ	CM3	58.36	(0.42)	-1.36826			495.5	
CM028Q03	Formulate	CM4	29.49	(0.39)	-0.04514			598.6	
CM035Q01	Interpret	CM3	78.41	(0.35)	-2.34025			419.8	
CM035Q02	Interpret	CM3	44.35	(0.41)	-0.46427			566.0	
CM035Q03	Interpret	CM3	65.72	(0.39)	-1.60875			476.9	
CM035Q04	Formulate	CM3	10.51	(0.25)	1.47715			717.2	
CM036Q01T	Interpret	CM3	43.81	(0.42)	-0.55090			559.2	
CM036Q02	Employ	CM3	9.08	(0.22)	1.92230			751.8	
CM036Q03	Interpret	CM3	11.11	(0.27)	1.64466			730.2	
CM038Q03T	Interpret	CM2	67.13	(0.40)	-1.71160			468.8	
CM038Q05	Interpret	CM2	27.75	(0.37)	0.50001			641.1	
CM038Q06	Interpret	CM2	23.24	(0.37)	0.74882			660.4	



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Table A.6 PISA 2012 Main Survey problem solving item classification

Unit Item Code	Unit Name	Source	Language of submission	Item Format	Context (1)	Context (2)	Nature of Problem Situation
CP002Q06	Robot Cleaner	ACER	English	Constructed Response Expert	Technology	Social	Static
CP002Q07	Robot Cleaner	ACER	English	Simple Multiple Choice	Technology	Social	Static
CP002Q08	Robot Cleaner	ACER	English	Simple Multiple Choice	Technology	Social	Static
CP007Q01	Traffic	ACER	English	Simple Multiple Choice	Non-technology	Social	Static
CP007Q02	Traffic	ACER	English	Constructed Response Auto-coded	Non-technology	Social	Static
CP007Q03T	Traffic	ACER	English	Selected Response Variations	Non-technology	Social	Static
CP010Q01	New Furniture	ACER	English	Simple Multiple Choice	Non-technology	Personal	Static
CP010Q05	New Furniture	ACER	English	Constructed Response Auto-coded	Non-technology	Personal	Static
CP010Q06	New Furniture	ACER	English	Constructed Response Auto-coded	Non-technology	Personal	Static
CP014Q01	Lost	ACER	English	Constructed Response Auto-coded	Non-technology	Personal	Interactive
CP014Q02	Lost	ACER	English	Simple Multiple Choice	Non-technology	Personal	Interactive
CP014Q06	Lost	ACER	English	Constructed Response Auto-coded	Non-technology	Personal	Interactive
CP015Q01	Blocks Game	ACER	English	Constructed Response Auto-coded	Non-technology	Personal	Static
CP015Q02	Blocks Game	ACER	English	Constructed Response Auto-coded	Non-technology	Personal	Static
CP015Q04	Blocks Game	ACER	English	Constructed Response Auto-coded	Non-technology	Personal	Static
CP018Q04T	Communications	ETS	English	Constructed Response Expert	Non-technology	Social	Static
CP018Q05	Communications	ETS	English	Complex Multiple Choice	Non-technology	Social	Static
CP025Q01	Climate Control	University of Heidelberg	German	Constructed Response Auto-coded	Technology	Personal	Interactive
CP025Q02	Climate Control	University of Heidelberg	German	Constructed Response Auto-coded	Technology	Personal	Interactive
CP027Q01T	Aquarium	University of Heidelberg	German	Complex Multiple Choice	Non-technology	Personal	Interactive
CP027Q02	Aquarium	University of Heidelberg	German	Constructed Response Auto-coded	Non-technology	Personal	Interactive
CP028Q01	Advertising	ETS	English	Constructed Response Auto-coded	Non-technology	Social	Interactive
CP028Q02	Advertising	ETS	English	Constructed Response Auto-coded	Non-technology	Social	Interactive
CP029Q01	Remote Controls	University of Heidelberg	German	Constructed Response Auto-coded	Technology	Personal	Interactive
CP029Q02	Remote Controls	University of Heidelberg	German	Constructed Response Auto-coded	Technology	Personal	Interactive
CP032Q01	Drink Machine	ETS	English	Simple Multiple Choice	Technology	Social	Interactive
CP032Q02T	Drink Machine	ETS	English	Complex Multiple Choice	Technology	Social	Interactive
CP032Q04	Drink Machine	ETS	English	Simple Multiple Choice	Technology	Social	Interactive
CP034Q01T	Clock	ACER	English	Complex Multiple Choice	Technology	Personal	Interactive
CP034Q02	Clock	ACER	English	Constructed Response Auto-coded	Technology	Personal	Interactive
CP034Q05	Clock	ACER	English	Constructed Response Expert	Technology	Personal	Interactive
CP036Q01	Lights	ACER	English	Constructed Response Auto-coded	Technology	Personal	Interactive
CP036Q02	Lights	ACER	English	Constructed Response Expert	Technology	Personal	Static
CP036Q03	Lights	ACER	English	Constructed Response Expert	Technology	Personal	Interactive
CP037Q01	Vitamins	Sweden	English	Constructed Response Auto-coded	Non-technology	Social	Interactive
CP037Q02	Vitamins	Sweden	English	Selected Response Variations	Non-technology	Social	Interactive
CP037Q03	Vitamins	Sweden	English	Simple Multiple Choice	Non-technology	Social	Interactive
CP038Q01	Tickets	ACER	English	Constructed Response Auto-coded	Technology	Social	Interactive
CP038Q02	Tickets	ACER	English	Constructed Response Auto-coded	Technology	Social	Interactive
CP038Q03	Tickets	ACER	English	Constructed Response Auto-coded	Technology	Social	Interactive
CP041Q02	Smiley	University of Heidelberg	German	Constructed Response Expert	Technology	Personal	Interactive
CP041Q03	Smiley	University of Heidelberg	German	Constructed Response Auto-coded	Technology	Personal	Interactive

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Table A.6 PISA 2012 Main Survey problem solving item classification

Unit Item Code	Problem Solving Process	Cluster	International % correct	S.E. % correct	Item parameters (RP=0.50)			Thresholds (RP=0.62) PISA scale	
					Delta	Tau(1)	Tau(2)	1	2
CP002Q06	Representing and formulating	CP4	47.23	(0.26)	0.24755	-1.73723	1.73723	413.7	700.6
CP002Q07	Exploring and understanding	CP4	46.84	(0.43)	0.27462			559.3	
CP002Q08	Exploring and understanding	CP4	63.12	(0.42)	-0.58064			489.9	
CP007Q01	Planning and executing	CP3	86.44	(0.31)	-2.42254			340.4	
CP007Q02	Planning and executing	CP3	70.42	(0.40)	-1.11665			446.4	
CP007Q03T	Monitoring and reflecting	CP3	78.18	(0.37)	-1.59499			407.6	
CP010Q01	Exploring and understanding	CP3	75.59	(0.39)	-1.54065			412.0	
CP010Q05	Planning and executing	CP3	57.22	(0.45)	-0.37027			507.0	
CP010Q06	Planning and executing	CP3	42.49	(0.46)	0.34973			565.5	
CP014Q01	Planning and executing	CP4	56.07	(0.22)	-0.36172	-2.36313	2.36313	315.2	700.2
CP014Q02	Representing and formulating	CP4	22.24	(0.36)	1.67987			673.4	
CP014Q06	Representing and formulating	CP4	51.15	(0.45)	0.09181			544.5	
CP015Q01	Exploring and understanding	CP1	55.65	(0.45)	-0.18098			522.4	
CP015Q02	Planning and executing	CP1	39.96	(0.42)	0.59585			585.4	
CP015Q04	Monitoring and reflecting	CP1	9.99	(0.27)	2.74865			760.2	
CP018Q04T	Representing and formulating	CP2	16.82	(0.33)	1.98438			698.1	
CP018Q05	Exploring and understanding	CP2	43.25	(0.44)	0.42424			571.5	
CP025Q01	Representing and formulating	CP2	59.24	(0.41)	-0.36689	0.95308	-0.95308	491.7	522.8
CP025Q02	Planning and executing	CP2	27.92	(0.34)	1.16564	-0.02807	0.02807	591.6	671.8
CP027Q01T	Exploring and understanding	CP4	55.47	(0.35)	-0.17885	-0.48111	0.48111	462.5	582.6
CP027Q02	Planning and executing	CP4	16.18	(0.23)	2.35831	-0.98852	0.98852	638.7	818.1
CP028Q01	Representing and formulating	CP1	53.85	(0.43)	-0.17991			522.4	
CP028Q02	Planning and executing	CP1	61.32	(0.37)	-0.38544	-0.07416	0.07416	463.9	547.6
CP029Q01	Representing and formulating	CP3	65.68	(0.41)	-0.69594	0.85609	-0.85609	463.4	497.7
CP029Q02	Planning and executing	CP3	49.07	(0.41)	0.05188	0.15897	-0.15897	507.6	574.9
CP032Q01	Exploring and understanding	CP1	46.30	(0.45)	0.26577			558.6	
CP032Q02T	Representing and formulating	CP1	77.94	(0.30)	-1.54532	-0.60393	0.60393	345.1	478.1
CP032Q04	Planning and executing	CP1	50.01	(0.44)	-0.01101			536.2	
CP034Q01T	Exploring and understanding	CP1	40.30	(0.44)	0.62707			587.9	
CP034Q02	Planning and executing	CP1	92.26	(0.23)	-2.99980			293.6	
CP034Q05	Monitoring and reflecting	CP1	78.72	(0.37)	-1.54340			411.8	
CP036Q01	Representing and formulating	CP2	48.23	(0.45)	0.09071			544.4	
CP036Q02	Planning and executing	CP2	29.56	(0.28)	1.53249	-1.44876	1.44876	539.7	783.1
CP036Q03	Monitoring and reflecting	CP2	43.35	(0.45)	0.38056			568.0	
CP037Q01	Planning and executing	CP3	61.92	(0.45)	-0.69624			480.6	
CP037Q02	Exploring and understanding	CP3	44.07	(0.45)	0.22055			555.0	
CP037Q03	Monitoring and reflecting	CP3	16.18	(0.33)	1.86473			688.4	
CP038Q01	Exploring and understanding	CP2	50.11	(0.32)	0.10837	-1.03247	1.03247	453.3	638.4
CP038Q02	Planning and executing	CP2	58.02	(0.42)	-0.14067			525.6	
CP038Q03	Monitoring and reflecting	CP2	42.88	(0.44)	0.52118			579.3	
CP041Q02	Monitoring and reflecting	CP4	19.95	(0.33)	1.41837	0.76407	-0.76407	633.5	670.9
CP041Q03	Planning and executing	CP4	74.38	(0.23)	-2.09042	-2.35534	2.35534	175.5	559.2



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Table A.7 PISA 2012 Main Survey financial literacy item classification

Unit Item Code	Unit Name	Source	Language of submission	Item Format	Content	Process
PF001Q01	Costs of Running a Car	ACER	English	Complex Multiple Choice	Planning	Analyse information in a financial context
PF004Q03	Income tax	ACER	English	Constructed Response Expert	Planning	Evaluate financial issues
PF006Q02	Music system	ACER	English	Complex Multiple Choice	Planning	Analyse information in a financial context
PF009Q02	Shopping	ACER	English	Simple Multiple Choice	Money	Apply financial knowledge and understanding
PF010Q01	Bank statement	ACER	English	Constructed Response Manual	Money	Identify financial information
PF010Q02	Bank statement	ACER	English	Constructed Response Manual	Money	Analyse information in a financial context
PF012Q01	Interest	ACER	English	Simple Multiple Choice	RiskRew	Apply financial knowledge and understanding
PF012Q02	Interest	ACER	English	Complex Multiple Choice	RiskRew	Analyse information in a financial context
PF024Q02	Jacket sale	ACER	English	Constructed Response Expert	Money	Evaluate financial issues
PF028Q02	Phone plans	ACER	English	Constructed Response Expert	Planning	Analyse information in a financial context
PF028Q03	Phone plans	ACER	English	Simple Multiple Choice	Planning	Analyse information in a financial context
PF031Q01	Laptop	ACER	English	Complex Multiple Choice	RiskRew	Evaluate financial issues
PF031Q02	Laptop	ACER	English	Constructed Response Manual	RiskRew	Apply financial knowledge and understanding
PF033Q01	Wayne's Bank Statement	ACER	English	Simple Multiple Choice	Money	Analyse information in a financial context
PF033Q02	Wayne's Bank Statement	ACER	English	Simple Multiple Choice	Money	Identify financial information
PF035Q01	Ringtones	ACER	English	Constructed Response Manual	Landscape	Apply financial knowledge and understanding
PF036Q01	Online Shopping	ACER	English	Constructed Response Expert	Landscape	Evaluate financial issues
PF051Q01	Bicycle Shop	ACER	English	Constructed Response Expert	Planning	Evaluate financial issues
PF051Q02	Bicycle Shop	ACER	English	Constructed Response Expert	Planning	Evaluate financial issues
PF052Q01	Video Game	ACER	English	Complex Multiple Choice	Planning	Identify financial information
PF054Q01	E-mail	ACER	English	Constructed Response Expert	Landscape	Evaluate financial issues
PF055Q03	Invoice	ACER	English	Constructed Response Manual	Money	Apply financial knowledge and understanding
PF058Q01	Personal Identification Number	ACER	English	Constructed Response Expert	RiskRew	Evaluate financial issues
PF062Q01	Mobile Phone Contract	ACER	English	Complex Multiple Choice	Landscape	Evaluate financial issues
PF068Q01	Job Change	ACER	English	Constructed Response Expert	Planning	Evaluate financial issues
PF069Q01	Student Account	ACER	English	Complex Multiple Choice	Landscape	Analyse information in a financial context
PF075Q02	Study Options	ACER	English	Complex Multiple Choice	Planning	Analyse information in a financial context
PF082Q01	New Bike	ACER	English	Constructed Response Expert	Money	Identify financial information
PF082Q02	New Bike	ACER	English	Simple Multiple Choice	RiskRew	Identify financial information
PF095Q01	Changing Value	ACER	English	Simple Multiple Choice	Money	Identify financial information
PF095Q02	Changing Value	ACER	English	Complex Multiple Choice	Landscape	Analyse information in a financial context
PF097Q01	Company Profit	ACER	English	Complex Multiple Choice	Landscape	Identify financial information
PF102Q01	Gantica	ACER	English	Constructed Response Manual	RiskRew	Apply financial knowledge and understanding
PF102Q02	Gantica	ACER	English	Constructed Response Expert	RiskRew	Apply financial knowledge and understanding
PF103Q01	Investing	ACER	English	Constructed Response Expert	RiskRew	Evaluate financial issues
PF105Q01	Interest Rates	ACER	English	Simple Multiple Choice	Money	Apply financial knowledge and understanding
PF105Q02	Interest Rates	ACER	English	Simple Multiple Choice	Money	Apply financial knowledge and understanding
PF106Q01	Family Holiday	ACER	English	Constructed Response Expert	Planning	Evaluate financial issues
PF106Q02	Family Holiday	ACER	English	Simple Multiple Choice	Planning	Apply financial knowledge and understanding
PF110Q01	Living Alone	ACER	English	Complex Multiple Choice	Planning	Evaluate financial issues

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Table A.7 PISA 2012 Main Survey financial literacy item classification

Unit Item Code	Context	Cluster	International % correct	S.E. % correct	Item parameters (RP=0.50)			Thresholds (RP=0.62) PISA scale	
					Delta	Tau(1)	Tau(2)	1	2
PF001Q01	Home and family	PF1	74.81	(0.37)	-1.02000			426.8	476.2
PF004Q03	Education and work	PF2	6.98	(0.21)	3.29700			829.1	
PF006Q02	Individual	PF2	57.67	(0.43)	-0.08100			514.3	
PF009Q02	Home and family	PF1,PFUH	93.17	(0.23)	-2.76900			263.8	
PF010Q01	Home and family	PF1	50.40	(0.45)	0.34300			553.8	
PF010Q02	Home and family	PF1	25.59	(0.39)	1.29300	0.78400	-0.78400	621.2	663.4
PF012Q01	Individual	PF1	60.74	(0.43)	-0.18400			504.7	
PF012Q02	Individual	PF1	47.56	(0.43)	0.51300			569.6	
PF024Q02	Individual	PF2	62.54	(0.41)	-0.35000			489.1	
PF028Q02	Individual	PF1,PFUH	59.00	(0.43)	-0.19800			503.4	
PF028Q03	Individual	PF1,PFUH	74.90	(0.38)	-1.03700			425.2	
PF031Q01	Home and family	PF1,PFUH	29.08	(0.40)	1.36600			649.1	
PF031Q02	Home and family	PF1,PFUH	56.47	(0.43)	-0.01000			520.8	
PF033Q01	Individual	PF2,PFUH	37.75	(0.41)	0.97900			613.1	
PF033Q02	Individual	PF2,PFUH	58.62	(0.43)	-0.05600			516.6	
PF035Q01	Individual	PF2,PFUH	53.59	(0.43)	0.19200			539.7	
PF036Q01	Societal	PF1	46.80	(0.42)	0.52200			570.5	
PF051Q01	Education and work	PF2	83.66	(0.34)	-1.54100			378.2	
PF051Q02	Education and work	PF2	48.85	(0.45)	0.33400			552.9	
PF052Q01	Individual	PF2	76.92	(0.38)	-1.09800			419.5	
PF054Q01	Societal	PF1	66.79	(0.40)	-0.53600			471.9	
PF055Q03	Individual	PF2	37.58	(0.37)	0.82100	-0.25800	0.25800	541.6	655.1
PF058Q01	Societal	PF2,PFUH	86.55	(0.29)	-1.66800			366.5	
PF062Q01	Home and family	PF2,PFUH	75.64	(0.39)	-0.82700			444.8	
PF068Q01	Education and work	PF1	52.51	(0.44)	0.22200			542.5	
PF069Q01	Education and work	PF2	69.53	(0.41)	-0.67600			458.7	
PF075Q02	Education and work	PF2	31.07	(0.39)	1.23300			636.7	
PF082Q01	Individual	PF1	65.93	(0.40)	-0.36000	0.75100	-0.75100	466.5	510.1
PF082Q02	Home and family	PF1	83.96	(0.31)	-1.69200			364.1	
PF095Q01	Home and family	PF2	33.17	(0.43)	1.05400			620.0	
PF095Q02	Societal	PF2	28.03	(0.39)	1.44800			656.8	
PF097Q01	Individual	PF1	11.27	(0.28)	2.76000			779.1	
PF102Q01	Home and family	PF2,PFUH	85.51	(0.32)	-1.72700			360.9	
PF102Q02	Home and family	PF2,PFUH	65.43	(0.33)	-0.44800	-0.39100	0.39100	416.3	543.9
PF103Q01	Individual	PF1	35.25	(0.44)	1.05200			619.9	
PF105Q01	Individual	PF1,PFUH	33.46	(0.43)	1.17900			631.7	
PF105Q02	Individual	PF1,PFUH	42.99	(0.45)	0.73400			590.2	
PF106Q01	Home and family	PF2,PFUH	77.05	(0.38)	-1.11200			418.2	
PF106Q02	Home and family	PF2,PFUH	54.87	(0.44)	0.17300			537.9	
PF110Q01	Home and family	PF1,PFUH	90.91	(0.26)	-2.12600			323.7	