ANNEX A – MAIN SURVEY ITEM POOL CLASSIFICATION

[Part 1/10]

Table A.1   PISA 2015 main survey trend science item classification

Generic ID	CBA item ID in main survey analysis output	PBA item ID in main survey analysis output	Unit name	Mode [paper-based (PB); computer-based (CB)]	2015 field trial and main survey cluster	Sequence in cluster	Sequence in unit
S131Q02	DS131Q02C	PS131Q02	Good Vibrations	PB and CB	S03	4	1/2
S131Q04	DS131Q04C	PS131Q04	Good Vibrations	PB and CB	S03	5	2/2
S252Q01	CS252Q01S	PS252Q01S	South Rainea	PB and CB	S06	6	1/3
S252Q02	CS252Q02S	PS252Q02S	South Rainea	PB and CB	S06	7	2/3
S252Q03	CS252Q03S	PS252Q03S	South Rainea	PB and CB	S06	8	3/3
S256Q01	CS256Q01S	PS256Q01S	Spoons	PB and CB	S02, U1	5	1/1
S268Q01	CS268Q01S	PS268Q01S	Algae	PB and CB	S04	8	1/3
S268Q02	DS268Q02C	S268Q02	Algae	PB and CB	S04	9	2/3
S268Q06	CS268Q06S	PS268Q06S	Algae	PB and CB	S04	10	3/3
S269Q01	DS269Q01C	PS269Q01	Earth's Temperature	PB and CB	S01	1	1/3
S269Q03	DS269Q03C	PS269Q03	Earth's Temperature	PB and CB	S01	2	2/3
S269Q04	CS269Q04S	PS269Q04S	Earth's Temperature	PB and CB	S01	3	3/3
S304Q01	DS304Q01C	S304Q01	Water	PB and CB	S05	9	1/4
S304Q02	CS304Q02S	PS304Q02S	Water	PB and CB	S05	10	2/4
S304Q03	DS304Q03aC	S304Q03a	Water	PB and CB	S05	11	3/4
S304Q03	DS304Q03bC	S304Q03b	Water	PB and CB	S05	12	4/4
S326Q01	DS326Q01C	PS326Q01	Milk	PB and CB	S02	1	1/4
S326Q02	DS326Q02C	PS326Q02	Milk	PB and CB	S02	2	2/4
S326Q03	CS326Q03S	PS326Q03S	Milk	PB and CB	S02	3	3/4
S326Q04	CS326Q04S	PS326Q04S	Milk	PB and CB	S02	4	4/4
S327Q01	CS327Q01S	PS327Q01S	Tidal Energy	PB and CB	S06	9	1/2
S408Q01	CS408Q01S	PS408Q01S	Wild Oat Grass	PB and CB	S01	4	1/4
S408Q03	DS408Q03C	PS408Q03	Wild Oat Grass	PB and CB	S01	5	2/4
S408Q04	CS408Q04S	PS408Q04S	Wild Oat Grass	PB and CB	S01	6	3/4
S408Q05	CS408Q05S	PS408Q05S	Wild Oat Grass	PB and CB	S01	7	4/4
S413Q04	CS413Q04S	PS413Q04S	Plastic Age	PB and CB	S02	10	2/3
S413Q05	CS413Q05S	PS413Q05S	Plastic Age	PB and CB	S02	11	3/3
S413Q06	CS413Q06S	PS413Q06	Plastic Age	PB and CB	S02	9	1/3
S415Q02	CS415Q02S	PS415Q02S	Solar Power Generation (Solar Panels)	PB and CB	S03, U2	16	2/3
S415Q07	CS415Q07S	PS415Q07S	Solar Power Generation (Solar Panels)	PB and CB	S03, U2	15	1/3
S415Q08	CS415Q08S	PS415Q08S	Solar Power Generation (Solar Panels)	PB and CB	S03, U2	17	3/3
S416Q01	DS416Q01C	S416Q01	The Moon	PB and CB	S05	13	1/1
S421Q01	CS421Q01S	S421Q01	Big and Small	PB and CB	S06, U2	3	1/3
S421Q02	CS421Q02S	S421Q02	Big and Small	PB and CB	S06, U2	4	2/3
S421Q03	CS421Q03S	S421Q03	Big and Small	PB and CB	S06, U2	5	3/3
S425Q02	CS425Q02S	PS425Q02S	Penguin Island	PB and CB	S02	17	3/4
S425Q03	DS425Q03C	PS425Q03	Penguin Island	PB and CB	S02	15	1/4
S425Q04	DS425Q04C	PS425Q04	Penguin Island	PB and CB	S02	18	4/4
S425Q05	CS425Q05S	PS425Q05S	Penguin Island	PB and CB	S02	16	2/4
S428Q01	CS428Q01S	PS428Q01S	Bacteria in Milk	PB and CB	S03, U1	6	1/3
S428Q03	CS428Q03S	PS428Q03S	Bacteria in Milk	PB and CB	S03, U1	7	2/3
S428Q05	DS428Q05C	PS428Q05	Bacteria in Milk	PB and CB	S03, U1	8	3/3

Table A.1 PISA 2015 main survey trend science item classification

Generic ID	CBA item ID in main survey analysis output	PBA item ID in main survey analysis output	Unit name	Mode [paper-based (PB); computer-based (CB)]	2015 field trial and main survey cluster	Sequence in cluster	Sequence in unit
S437Q01	CS437Q01S	PS437Q01S	Extinguishing Fires	PB and CB	S05	5	1/4
S437Q03	CS437Q03S	PS437Q03S	Extinguishing Fires	PB and CB	S05	6	2/4
S437Q04	CS437Q04S	PS437Q04S	Extinguishing Fires	PB and CB	S05	7	3/4
S437Q06	DS437Q06C	S437Q06	Extinguishing Fires	PB and CB	S05	8	4/4
S438Q01	CS438Q01S	PS438Q01S	Green Parks	PB and CB	S03	12	1/3
S438Q02	CS438Q02S	PS438Q02S	Green Parks	PB and CB	S03	13	2/3
S438Q03	DS438Q03C	PS438Q03	Green Parks	PB and CB	S03	14	3/3
S458Q01	DS458Q01C	S458Q01	The Ice Mummy	PB and CB	S06	1	1/2
S458Q02	CS458Q02S	PS458Q02S	The Ice Mummy	PB and CB	S06	2	2/2
S465Q01	DS465Q01C	PS465Q01	Different Climates	PB and CB	S03	1	1/3
S465Q02	CS465Q02S	PS465Q02S	Different Climates	PB and CB	S03	2	2/3
S465Q04	CS465Q04S	PS465Q04S	Different Climates	PB and CB	S03	3	3/3
S466Q01	CS466Q01S	PS466Q01S	Forest Fires	PB and CB	S01, U1	16	1/3
S466Q05	CS466Q05S	PS466Q05S	Forest Fires	PB and CB	S01, U1	18	3/3
S466Q07	CS466Q07S	PS466Q07S	Forest Fires	PB and CB	S01, U1	17	2/3
S476Q01	CS476Q01S	PS476Q01S	Heart Surgery	PB and CB	S04, U2	1	1/3
S476Q02	CS476Q02S	PS476Q02S	Heart Surgery	PB and CB	S04, U2	2	2/3
S476Q03	CS476Q03S	PS476Q03S	Heart Surgery	PB and CB	S04, U2	3	3/3
S478Q01	CS478Q01S	PS478Q01S	Antibiotics	PB and CB	S02	6	1/3
S478Q02	CS478Q02S	PS478Q02S	Antibiotics	PB and CB	S02	7	2/3
S478Q03	CS478Q03S	PS478Q03S	Antibiotics	PB and CB	S02	8	3/3
S495Q01	CS495Q01S	PS495Q01S	Radiotherapy	PB and CB	S04	5	2/4
S495Q02	CS495Q02S	PS495Q02S	Radiotherapy	PB and CB	S04	6	3/4
S495Q03	DS495Q03C	S495Q03	Radiotherapy	PB and CB	S04	7	4/4
S495Q04	CS495Q04S	PS495Q04S	Radiotherapy	PB and CB	S04	4	1/4
S498Q02	CS498Q02S	PS498Q02S	Experimental Digestion	PB and CB	S02	12	1/3
S498Q03	CS498Q03S	PS498Q03S	Experimental Digestion	PB and CB	S02	13	2/3
S498Q04	DS498Q04C	PS498Q04	Experimental Digestion	PB and CB	S02	14	3/3
S510Q01	CS510Q01S	PS510Q01S	Magnetic Hovertrain	PB and CB	S05	3	1/2
S510Q04	DS510Q04C	S510Q04	Magnetic Hovertrain	PB and CB	S05	4	2/2
S514Q02	DS514Q02C	PS514Q02	Development and Disaster	PB and CB	S03	9	1/3
S514Q03	DS514Q03C	PS514Q03	Development and Disaster	PB and CB	S03	10	2/3
S514Q04	DS514Q04C	PS514Q04	Development and Disaster	PB and CB	S03	11	3/3
S519Q01	DS519Q01C	PS519Q01	Airbags	PB and CB	S01	10	1/3
S519Q02	CS519Q02S	PS519Q02S	Airbags	PB and CB	S01	11	2/3
S519Q03	DS519Q03C	PS519Q03	Airbags	PB and CB	S01	12	3/3
S521Q02	CS521Q02S	PS521Q02S	Cooking Outdoors	PB and CB	S01	8	1/2
S521Q06	CS521Q06S	PS521Q06S	Cooking Outdoors	PB and CB	S01	9	2/2
S524Q06	CS524Q06S	PS524Q06S	Penicillin Manufacture	PB and CB	S05	1	1/2
S524Q07	DS524Q07C	S524Q07	Penicillin Manufacture	PB and CB	S05	2	2/2
S527Q01	CS527Q01S	PS527Q01S	Extinction of the Dinosaurs	PB and CB	S01	13	1/3
S527Q03	CS527Q03S	PS527Q03S	Extinction of the Dinosaurs	PB and CB	S01	14	2/3
S527Q04	CS527Q04S	PS527Q04S	Extinction of the Dinosaurs	PB and CB	S01	15	3/3

Table A.1 PISA 2015 main survey trend science item classification

Generic ID	Item format - CBA	Item format - PBA	Context 1 (2015)	Context 1 (2006)	Context 2	Competency (2015)	Competency (2006)
S131Q02	Open Response - Human Coded	Open Response - Human Coded	Personal	Social	Health & Disease	Interpret data and evidence scientifically	Using scientific evidence
S131Q04	Open Response - Human Coded	Open Response - Human Coded	Local/ National	Social	Health & Disease	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S252Q01	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	NA	Natural Resources	Interpret data and evidence scientifically	Missing
S252Q02	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	NA	Natural Resources	Interpret data and evidence scientifically	Missing
S252Q03	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/ National	NA	Natural Resources	Interpret data and evidence scientifically	Missing
S256Q01	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Personal	Personal	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S268Q01	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Social	Hazards	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S268Q02	Open Response - Human Coded	Open Response - Human Coded	Local/ National	Social	Hazards	Explain phenomena scientifically	Explaining phenomena scientifically
S268Q06	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Global	Social	Environmental Quality	Explain phenomena scientifically	Explaining phenomena scientifically
S269Q01	Open Response - Human Coded	Open Response - Human Coded	Global	Global	Environmental Quality	Explain phenomena scientifically	Explaining phenomena scientifically
S269Q03	Open Response - Human Coded	Open Response - Human Coded	Global	Global	Environmental Quality	Explain phenomena scientifically	Explaining phenomena scientifically
S269Q04	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Global	Global	Environmental Quality	Explain phenomena scientifically	Explaining phenomena scientifically
S304Q01	Open Response - Human Coded	Open Response - Human Coded	Local/ National	Social	Natural Resources	Interpret data and evidence scientifically	Using scientific evidence
S304Q02	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Social	Natural Resources	Explain phenomena scientifically	Explaining phenomena scientifically
S304Q03	Open Response - Human Coded	Open Response - Human Coded	Local/ National	Global	Frontiers	Explain phenomena scientifically	Using scientific evidence
S304Q03	Open Response - Human Coded	Open Response - Human Coded	Local/ National	Social	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S326Q01	Open Response - Human Coded	Open Response - Human Coded	Local/ National	Personal	Health & Disease	Interpret data and evidence scientifically	Using scientific evidence
S326Q02	Open Response - Human Coded	Open Response - Human Coded	Local/ National	Personal	Health & Disease	Interpret data and evidence scientifically	Using scientific evidence
S326Q03	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Personal	Health & Disease	Interpret data and evidence scientifically	Using scientific evidence
S326Q04	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/ National	Personal	Health & Disease	Explain phenomena scientifically	Explaining phenomena scientifically
S327Q01	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Global	NA	Natural Resources	Explain phenomena scientifically	NA
S408Q01	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Social	Natural Resources	Explain phenomena scientifically	Explaining phenomena scientifically
S408Q03	Open Response - Human Coded	Open Response - Human Coded	Local/ National	Social	Natural Resources	Explain phenomena scientifically	Explaining phenomena scientifically
S408Q04	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/ National	Social	Natural Resources	Explain phenomena scientifically	Explaining phenomena scientifically
S408Q05	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Social	Natural Resources	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S413Q04	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/ National	Social	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S413Q05	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Social	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S413Q06	Complex Multiple Choice - Computer Scored	Open Response - Human Coded	Local/ National	Personal	Frontiers	Interpret data and evidence scientifically	Explaining phenomena scientifically
S415Q02	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Global	Natural Resources	Explain phenomena scientifically	Explaining phenomena scientifically
S415Q07	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/ National	Personal	Natural Resources	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S415Q08	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Global	Global	Natural Resources	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S416Q01	Open Response - Human Coded	Open Response - Human Coded	Global	Global	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S421Q01	Open Response - Computer Scored	Open Response - Human Coded	Personal	Personal	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S421Q02	Open Response - Computer Scored	Open Response - Human Coded	Personal	Personal	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S421Q03	Open Response - Computer Scored	Open Response - Human Coded	Personal	Personal	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S425Q02	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Social	Environmental Quality	Interpret data and evidence scientifically	Using scientific evidence
S425Q03	Open Response - Human Coded	Open Response - Human Coded	Local/ National	Social	Environmental Quality	Explain phenomena scientifically	Explaining phenomena scientifically
S425Q04	Open Response - Human Coded	Open Response - Human Coded	Global	Social	Environmental Quality	Evaluate and design scientific enquiry	Using scientific evidence
S425Q05	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Social	Environmental Quality	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S428Q01	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Social	Health & Disease	Interpret data and evidence scientifically	Using scientific evidence
S428Q03	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/ National	Social	Health & Disease	Interpret data and evidence scientifically	Using scientific evidence
S428Q05	Open Response - Human Coded	Open Response - Human Coded	Global	Social	Health & Disease	Explain phenomena scientifically	Explaining phenomena scientifically

[Part 4/10]

Table A.1 **PISA 2015 main survey trend science item classification**

Generic ID	Item format - CBA	Item format - PBA	Context 1 (2015)	Context 1 (2006)	Context 2	Competency (2015)	Competency (2006)
S437Q01	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/National	Social	Hazards	Explain phenomena scientifically	Explaining phenomena scientifically
S437Q03	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/National	Social	Hazards	Explain phenomena scientifically	Explaining phenomena scientifically
S437Q04	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/National	Social	Hazards	Explain phenomena scientifically	Explaining phenomena scientifically
S437Q06	Open Response - Human Coded	Open Response - Human Coded	Local/National	Social	Hazards	Explain phenomena scientifically	Explaining phenomena scientifically
S438Q01	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Social	Natural Resources	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S438Q02	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/National	Social	Natural Resources	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S438Q03	Open Response - Human Coded	Open Response - Human Coded	Local/National	Social	Natural Resources	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S458Q01	Open Response - Human Coded	Open Response - Human Coded	Global	Global	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S458Q02	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Global	Global	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S465Q01	Open Response - Human Coded	Open Response - Human Coded	Global	Global	Natural Resources	Interpret data and evidence scientifically	Using scientific evidence
S465Q02	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Global	Global	Natural Resources	Explain phenomena scientifically	Explaining phenomena scientifically
S465Q04	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Global	Global	Natural Resources	Explain phenomena scientifically	Explaining phenomena scientifically
S466Q01	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Social	Hazards	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S466Q05	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/National	Social	Hazards	Interpret data and evidence scientifically	Using scientific evidence
S466Q07	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Social	Hazards	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S476Q01	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/National	Personal	Health & Disease	Explain phenomena scientifically	Explaining phenomena scientifically
S476Q02	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/National	Personal	Health & Disease	Explain phenomena scientifically	Explaining phenomena scientifically
S476Q03	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/National	Personal	Health & Disease	Explain phenomena scientifically	Explaining phenomena scientifically
S478Q01	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/National	Personal	Health & Disease	Explain phenomena scientifically	Explaining phenomena scientifically
S478Q02	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Personal	Health & Disease	Interpret data and evidence scientifically	Using scientific evidence
S478Q03	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Personal	Health & Disease	Explain phenomena scientifically	Explaining phenomena scientifically
S495Q01	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Social	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S495Q02	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Social	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S495Q03	Open Response - Human Coded	Open Response - Human Coded	Local/National	Social	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S495Q04	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Social	Frontiers	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S498Q02	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Social	Frontiers	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S498Q03	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Local/National	Social	Frontiers	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S498Q04	Open Response - Human Coded	Open Response - Human Coded	Local/National	Social	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S510Q01	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Social	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S510Q04	Open Response - Human Coded	Open Response - Human Coded	Local/National	Personal	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S514Q02	Open Response - Human Coded	Open Response - Human Coded	Local/National	Social	Environmental Quality	Explain phenomena scientifically	Using scientific evidence
S514Q03	Open Response - Human Coded	Open Response - Human Coded	Local/National	Social	Environmental Quality	Explain phenomena scientifically	Explaining phenomena scientifically
S514Q04	Open Response - Human Coded	Open Response - Human Coded	Local/National	Social	Environmental Quality	Interpret data and evidence scientifically	Using scientific evidence
S519Q01	Open Response - Human Coded	Open Response - Human Coded	Personal	Social	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S519Q02	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Personal	Social	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S519Q03	Open Response - Human Coded	Open Response - Human Coded	Personal	Social	Frontiers	Evaluate and design scientific enquiry	Identifying scientific questions/issues
S521Q02	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Personal	Personal	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S521Q06	Simple Multiple Choice - Computer Scored	Simple Multiple Choice - Data Entered	Personal	Personal	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S524Q06	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Local/National	Social	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S524Q07	Open Response - Human Coded	Open Response - Human Coded	Local/National	Social	Frontiers	Explain phenomena scientifically	Using scientific evidence
S527Q01	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Global	Global	Frontiers	Interpret data and evidence scientifically	Using scientific evidence
S527Q03	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Global	Global	Frontiers	Explain phenomena scientifically	Explaining phenomena scientifically
S527Q04	Complex Multiple Choice - Computer Scored	Complex Multiple Choice - Data Entered	Global	Global	Frontiers	Interpret data and evidence scientifically	Explaining phenomena scientifically

[Part 5/10]

Table A.1   PISA 2015 main survey trend science item classification

Generic ID	Knowledge (2015)	Knowledge (2006)	System (2015)	System (2006)	Depth of knowledge	Unit origin	Language of submission	Source
S131Q02	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	Low	ACER	English	2012
S131Q04	Procedural	Knowledge about Science - Scientific Enquiry	Living	NA	Medium	ACER	English	2012
S252Q01	Content	Missing	Earth and Space	NA	Medium	Korea	Korean	2003
S252Q02	Content	Missing	Earth and Space	NA	Medium	Korea	Korean	2003
S252Q03	Procedural	Missing	Earth and Space	NA	Medium	Korea	Korean	2003
S256Q01	Content	Knowledge of Science	Physical	Physical Systems	Low	TIMSS	English	2012
S268Q01	Procedural	Knowledge about Science - Scientific Enquiry	Living	NA	Medium	Australia	English	2006
S268Q02	Content	Knowledge of Science	Living	Living Systems	Medium	Australia	English	2006
S268Q06	Content	Knowledge of Science	Living	Living Systems	Low	Australia	English	2006
S269Q01	Content	Knowledge of Science	Earth and Space	Earth and Space Systems	Low	CITO	Dutch	2012
S269Q03	Content	Knowledge of Science	Living	Living Systems	Medium	CITO	Dutch	2012
S269Q04	Content	Knowledge of Science	Physical	Physical Systems	Low	CITO	Dutch	2012
S304Q01	Content	Knowledge of Science	Physical	Physical Systems	Medium	CITO	Dutch	2006
S304Q02	Content	Knowledge of Science	Physical	Physical Systems	Medium	CITO	Dutch	2006
S304Q03	Content	Knowledge of Science	Physical	Technology Systems	Medium	CITO	Dutch	2006
S304Q03	Content	Knowledge of Science	Physical	Technology Systems	Medium	CITO	Dutch	2006
S326Q01	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	Medium	CITO	Dutch	2012
S326Q02	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	Medium	CITO	Dutch	2012
S326Q03	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	Medium	CITO	Dutch	2012
S326Q04	Content	Knowledge of Science	Living	Living Systems	Low	CITO	Dutch	2012
S327Q01	Content	NA	Earth and Space	NA	Medium	ACER	English	2003
S408Q01	Content	Knowledge of Science	Living	Living Systems	Medium	ILS	Norwegian	2012
S408Q03	Content	Knowledge of Science	Living	Living Systems	High	ILS	Norwegian	2012
S408Q04	Content	Knowledge of Science	Living	Living Systems	Medium	ILS	Norwegian	2012
S408Q05	Procedural	Knowledge about Science - Scientific Enquiry	Living	NA	High	ILS	Norwegian	2012
S413Q04	Content	Knowledge of Science	Physical	Technology Systems	Medium	IPN	German	2012
S413Q05	Content	Knowledge of Science	Physical	Technology Systems	High	IPN	German	2012
S413Q06	Content	Knowledge of Science	Physical	Physical Systems	Medium	IPN	German	2012
S415Q02	Content	Knowledge of Science	Earth and Space	Earth and Space Systems	Low	NIER	Japanese	2012
S415Q07	Epistemic	Knowledge about Science - Scientific Enquiry	Earth and Space	NA	Medium	ACER	English	2012
S415Q08	Epistemic	Knowledge about Science - Scientific Enquiry	Earth and Space	NA	Low	ACER	English	2012
S416Q01	Content	Knowledge about Science - Scientific Explanations	Earth and Space	NA	High	ILS	Norwegian	2006
S421Q01	Content	Knowledge of Science	Physical	Physical Systems	Low	ILS	Norwegian	2006
S421Q02	Content	Knowledge of Science	Living	Living Systems	Low	ILS	Norwegian	2006
S421Q03	Content	Knowledge of Science	Earth and Space	Earth and Space Systems	Low	ILS	Norwegian	2006
S425Q02	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	High	ACER	English	2012
S425Q03	Content	Knowledge of Science	Living	Living Systems	Low	ACER	English	2012
S425Q04	Epistemic	Knowledge about Science - Scientific Enquiry	Living	NA	Medium	ACER	English	2012
S425Q05	Procedural	Knowledge about Science - Scientific Enquiry	Living	Living Systems	Medium	ACER	English	2012
S428Q01	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	Low	IPN	German	2012
S428Q03	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	Medium	IPN	German	2012
S428Q05	Content	Knowledge of Science	Living	Living Systems	Medium	IPN	German	2012

[Part 6/10]

Table A.1   PISA 2015 main survey trend science item classification

Generic ID	Knowledge (2015)	Knowledge (2006)	System (2015)	System (2006)	Depth of knowledge	Unit origin	Language of submission	Source
S437Q01	Content	Knowledge of Science	Physical	Physical Systems	Low	ACER	English	2006
S437Q03	Content	Knowledge of Science	Physical	Physical Systems	Low	ACER	English	2006
S437Q04	Content	Knowledge of Science	Physical	Physical Systems	Low	ACER	English	2006
S437Q06	Content	Knowledge of Science	Physical	Physical Systems	Medium	ACER	English	2006
S438Q01	Procedural	Knowledge about Science - Scientific Enquiry	Living	NA	Low	ACER	English	2012
S438Q02	Procedural	Knowledge about Science - Scientific Enquiry	Physical	NA	Medium	ACER	English	2012
S438Q03	Epistemic	Knowledge about Science - Scientific Enquiry	Physical	NA	Medium	ACER	English	2012
S458Q01	Content	Knowledge of Science	Living	Living Systems	Medium	ILS	Norwegian	2006
S458Q02	Content	Knowledge of Science	Living	Living Systems	Medium	ILS	Norwegian	2006
S465Q01	Procedural	Knowledge about Science - Scientific Explanations	Earth and Space	NA	Medium	ILS	Norwegian	2012
S465Q02	Content	Knowledge of Science	Earth and Space	Earth and Space Systems	Low	ILS	Norwegian	2012
S465Q04	Content	Knowledge of Science	Earth and Space	Earth and Space Systems	Low	ILS	Norwegian	2012
S466Q01	Procedural	Knowledge about Science - Scientific Enquiry	Physical	NA	Medium	ILS	Norwegian	2012
S466Q05	Procedural	Using scientific evidence	Physical	NA	Medium	ILS	Norwegian	2012
S466Q07	Epistemic	Knowledge about Science - Scientific Enquiry	Physical	NA	Medium	ILS	Norwegian	2012
S476Q01	Content	Knowledge of Science	Living	Living Systems	Low	New Zealand	English	2006
S476Q02	Content	Knowledge of Science	Living	Living Systems	Low	New Zealand	English	2006
S476Q03	Content	Knowledge of Science	Living	Living Systems	Medium	New Zealand	English	2006
S478Q01	Content	Knowledge of Science	Living	Living Systems	Low	France	French	2012
S478Q02	Epistemic	Knowledge about Science - Scientific Explanations	Living	NA	Medium	France	French	2012
S478Q03	Content	Knowledge of Science	Living	Living Systems	Low	France	French	2012
S495Q01	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	Medium	France	French	2006
S495Q02	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	Medium	France	French	2006
S495Q03	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	Medium	France	French	2006
S495Q04	Epistemic	Knowledge about Science - Scientific Enquiry	Living	NA	Low	France	French	2006
S498Q02	Procedural	Knowledge about Science - Scientific Enquiry	Physical	NA	Medium	France	French	2012
S498Q03	Procedural	Knowledge about Science - Scientific Enquiry	Physical	NA	High	France	French	2012
S498Q04	Procedural	Knowledge about Science - Scientific Explanations	Living	NA	Medium	France	French	2012
S510Q01	Content	Knowledge of Science	Physical	Physical Systems	Medium	Belgium	Dutch	2006
S510Q04	Content	Knowledge of Science	Physical	Physical Systems	Medium	Belgium	Dutch	2006
S514Q02	Content	Knowledge of Science	Physical	Technology Systems	Low	NIER	Japanese	2012
S514Q03	Content	Knowledge of Science	Earth and Space	Earth and Space Systems	Medium	NIER	Japanese	2012
S514Q04	Epistemic	Knowledge of Science	Earth and Space	Technology Systems	Medium	NIER	Japanese	2012
S519Q01	Procedural	Knowledge about Science - Scientific Explanations	Physical	NA	High	France	French	2012
S519Q02	Content	Knowledge of Science	Physical	Physical Systems	Low	France	French	2012
S519Q03	Epistemic	Knowledge about Science - Scientific Enquiry	Living	NA	Medium	France	French	2012
S521Q02	Content	Knowledge of Science	Physical	Physical Systems	Low	ACER	English	2012
S521Q06	Content	Knowledge of Science	Physical	Physical Systems	Low	ACER	English	2012
S524Q06	Content	Knowledge of Science	Living	Technology Systems	Low	IPN	German	2006
S524Q07	Content	Knowledge about Science - Scientific Explanations	Living	NA	Medium	IPN	German	2006
S527Q01	Epistemic	Knowledge about Science - Scientific Explanations	Earth and Space	NA	Medium	Korea	Korean	2012
S527Q03	Content	Knowledge of Science	Earth and Space	Earth and Space Systems	Low	Korea	Korean	2012
S527Q04	Content	Knowledge of Science	Earth and Space	Earth and Space Systems	Medium	Korea	Korean	2012

[Part 7/10]

Table A.1 PISA 2015 main survey trend science item classification

Generic ID	CBA international % correct	CBA international % correct S.E.	CBA item parameters (RP = 0.50)				CBA thresholds (RP = .62)		Level
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
S131Q02	45.02	0.27	1.425	0.075			537		Level 3
S131Q04	26.78	0.24	1.211	0.551			624		Level 4
S252Q01	49.38	0.28	0.858	0.032			553		Level 3
S252Q02	63.78	0.27	0.458	-0.824			458		Level 2
S252Q03	52.79	0.28	0.708	-0.196			526		Level 3
S256Q01	87.63	0.18	1.000	-1.412			302		Level 1b
S268Q01	66.37	0.26	1.000	-0.580			442		Level 2
S268Q02	29.94	0.25	1.571	0.335			578		Level 4
S268Q06	45.11	0.27	0.916	0.088			559		Level 4
S269Q01	44.54	0.26	1.541	0.054			531		Level 3
S269Q03	37.35	0.25	1.625	0.230			559		Level 4
S269Q04	29.24	0.25	0.796	0.637			659		Level 5
S304Q01	31.91	0.25	1.387	0.369			588		Level 4
S304Q02	54.64	0.27	1.000	-0.323			485		Level 3
S304Q03	33.74	0.26	1.588	0.258			565		Level 4
S304Q03	44.28	0.27	2.475	0.009			512		Level 3
S326Q01	48.17	0.27	1.208	-0.194			498		Level 3
S326Q02	54.09	0.28	1.824	-0.206			483		Level 2
S326Q03	52.33	0.27	1.421	-0.144			501		Level 3
S326Q04	23.33	0.23	1.000	0.851			682		Level 5
S327Q01	49.47	0.27	0.991	-0.066			529		Level 3
S408Q01	56.24	0.26	0.965	-0.338			484		Level 2
S408Q03	24.14	0.23	0.983	0.618			644		Level 5
S408Q04	47.99	0.26	0.653	-0.098			548		Level 3
S408Q05	37.75	0.26	0.941	0.227			580		Level 4
S413Q04	36.78	0.26	0.963	0.249			583		Level 4
S413Q05	64.88	0.26	0.908	-0.499			460		Level 2
S413Q06	32.43	0.26	1.623	0.239			561		Level 4
S415Q02	71.67	0.26	1.409	-0.672			412		Level 2
S415Q07	69.27	0.26	0.902	-0.677			431		Level 2
S415Q08	54.94	0.28	1.113	-0.211			499		Level 3
S416Q01	40.41	0.27	1.068	0.217			573		Level 4
S421Q01	40.64	0.27	1.068	0.181			567		Level 4
S421Q02	27.11	0.25	0.402	1.524			868		Level 6
S421Q03	56.73	0.27	1.362	-0.283			479		Level 2
S425Q02	47.19	0.29	1.000	0.094			555		Level 3
S425Q03	39.20	0.27	0.915	0.206			578		Level 4
S425Q04	27.07	0.26	1.114	0.647			643		Level 5
S425Q05	62.24	0.27	1.000	-0.452			463		Level 2
S428Q01	52.53	0.27	1.334	-0.180			497		Level 3
S428Q03	67.44	0.26	1.683	-0.498			436		Level 2
S428Q05	39.23	0.27	1.756	0.108			537		Level 3

[Part 8/10]

Table A.1 **PISA 2015 main survey trend science item classification**

Generic ID	CBA international % correct	CBA international % correct S.E.	CBA item parameters (RP = 0.50)				CBA thresholds (RP = .62)		Level
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
S437Q01	66.40	0.25	1.113	-0.568			439		Level 2
S437Q03	47.96	0.27	0.684	0.094			577		Level 4
S437Q04	47.96	0.27	1.000	-0.047			531		Level 3
S437Q06	69.29	0.25	1.809	-0.458			440		Level 2
S438Q01	71.99	0.24	1.138	-0.764			405		Level 1a
S438Q02	57.19	0.27	1.181	-0.291			483		Level 2
S438Q03	30.75	0.25	1.394	0.350			584		Level 4
S458Q01	13.20	0.19	1.032	1.284			754		Level 6
S458Q02	45.38	0.27	0.994	0.013			542		Level 3
S465Q01	38.68	0.23	0.985	0.178	-0.077	0.077	521	599	Level 4
S465Q02	55.57	0.27	0.922	-0.256			500		Level 3
S465Q04	36.29	0.30	0.562	0.561			671		Level 5
S466Q01	64.33	0.27	1.000	-0.578			442		Level 2
S466Q05	49.42	0.28	0.693	-0.071			549		Level 3
S466Q07	65.83	0.27	0.772	-0.752			427		Level 2
S476Q01	67.07	0.26	1.000	-0.617			435		Level 2
S476Q02	65.58	0.25	0.878	-0.729			423		Level 2
S476Q03	56.40	0.27	1.183	-0.302			481		Level 2
S478Q01	42.75	0.27	0.714	0.229			597		Level 4
S478Q02	47.25	0.27	1.200	-0.054			522		Level 3
S478Q03	60.37	0.26	0.974	-0.432			468		Level 2
S495Q01	35.71	0.25	0.903	0.409			613		Level 4
S495Q02	55.01	0.26	0.856	-0.251			505		Level 3
S495Q03	34.28	0.26	1.628	0.235			560		Level 4
S495Q04	31.91	0.25	0.890	0.424			616		Level 4
S498Q02	38.94	0.27	0.678	0.225			600		Level 4
S498Q03	38.92	0.27	0.497	0.487			670		Level 5
S498Q04	52.62	0.26	0.952	-0.175	-1.022	1.022	461	499	Level 3
S510Q01	46.62	0.27	0.587	0.085			588		Level 4
S510Q04	36.85	0.25	1.176	0.321			586		Level 4
S514Q02	72.97	0.25	1.682	-0.672			406		Level 1a
S514Q03	36.26	0.27	1.196	0.262			575		Level 4
S514Q04	49.01	0.28	1.914	-0.116			497		Level 3
S519Q01	31.42	0.22	0.742	0.383	-0.246	0.246	555	648	Level 5
S519Q02	48.36	0.27	0.492	-0.200			556		Level 3
S519Q03	23.89	0.22	0.838	0.866			694		Level 5
S521Q02	50.07	0.27	0.599	-0.121			551		Level 3
S521Q06	86.63	0.18	1.545	-1.100			337		Level 1a
S524Q06	59.15	0.26	0.977	-0.421			469		Level 2
S524Q07	32.43	0.25	1.382	0.437			599		Level 4
S527Q01	11.81	0.17	1.000	1.304			759		Level 6
S527Q03	49.25	0.27	0.634	-0.067			556		Level 3
S527Q04	48.20	0.27	0.846	-0.054			539		Level 3

[Part 9/10]

Table A.1 PISA 2015 main survey trend science item classification

Generic ID	PBA international % correct	PBA international % correct S.E.	PBA item parameters (RP = 0.50)				PBA thresholds (RP = .62)		Level
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
S131Q02	32.46	0.39	1.425	0.075			537		Level 3
S131Q04	18.25	0.30	1.211	0.551			624		Level 4
S252Q01	32.38	0.36	0.858	0.032			553		Level 3
S252Q02	64.07	0.37	0.458	-1.055			419		Level 2
S252Q03	42.45	0.40	0.708	-0.196			526		Level 3
S256Q01	81.39	0.28	1.000	-1.412			302		Level 1b
S268Q01	51.73	0.40	1.000	-0.580			442		Level 2
S268Q02	23.84	0.41	1.571	0.335			578		Level 4
S268Q06	40.93	0.39	0.916	-0.113			525		Level 3
S269Q01	34.93	0.37	1.541	-0.151			497		Level 3
S269Q03	29.40	0.36	1.625	0.230			559		Level 4
S269Q04	22.71	0.31	0.796	0.637			659		Level 5
S304Q01	26.79	0.36	1.387	0.149			551		Level 3
S304Q02	44.38	0.41	1.000	-0.323			485		Level 3
S304Q03	26.80	0.37	1.588	0.258			565		Level 4
S304Q03	24.41	0.37	2.475	0.009			512		Level 3
S326Q01	42.31	0.38	1.208	-0.194			498		Level 3
S326Q02	34.96	0.38	1.824	-0.206			483		Level 2
S326Q03	34.83	0.40	1.421	-0.144			501		Level 3
S326Q04	15.92	0.28	1.000	0.851			682		Level 5
S327Q01	47.28	0.40	0.991	-0.294			490		Level 3
S408Q01	46.10	0.38	0.965	-0.338			484		Level 2
S408Q03	26.56	0.33	0.983	0.618			644		Level 5
S408Q04	42.82	0.36	0.653	-0.098			548		Level 3
S408Q05	28.01	0.33	0.941	0.227			580		Level 4
S413Q04	28.02	0.33	0.963	0.249			583		Level 4
S413Q05	50.68	0.40	0.908	-0.499			460		Level 2
S413Q06	25.39	0.36	1.623	0.239			561		Level 4
S415Q02	58.05	0.41	1.409	-0.672			412		Level 2
S415Q07	56.08	0.40	0.902	-0.677			431		Level 2
S415Q08	40.74	0.39	1.113	-0.211			499		Level 3
S416Q01	28.98	0.39	1.068	0.217			573		Level 4
S421Q01	33.22	0.40	1.068	0.235			576		Level 4
S421Q02	26.69	0.35	0.402	1.224			817		Level 6
S421Q03	44.52	0.40	1.362	-0.283			479		Level 2
S425Q02	37.27	0.38	1.000	0.094			555		Level 3
S425Q03	35.19	0.38	0.915	0.206			578		Level 4
S425Q04	17.69	0.35	1.114	0.647			643		Level 5
S425Q05	51.09	0.41	1.000	-0.452			463		Level 2
S428Q01	43.06	0.38	1.334	-0.255			484		Level 2
S428Q03	47.61	0.39	1.683	-0.498			436		Level 2
S428Q05	26.48	0.36	1.756	0.108			537		Level 3

[Part 10/10]

Table A.1   **PISA 2015 main survey trend science item classification**

Generic ID	PBA international % correct	PBA international % correct S.E.	PBA item parameters (RP = 0.50)				PBA thresholds (RP = .62)		Level
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
S437Q01	56.81	0.40	1.113	-0.568			439		Level 2
S437Q03	39.27	0.36	0.684	0.094			577		Level 4
S437Q04	40.51	0.37	1.000	-0.135			516		Level 3
S437Q06	47.30	0.39	1.809	-0.458			440		Level 2
S438Q01	54.79	0.40	1.138	-0.885			384		Level 1a
S438Q02	47.73	0.40	1.181	-0.440			458		Level 2
S438Q03	21.52	0.32	1.394	0.350			584		Level 4
S458Q01	18.12	0.32	1.032	1.032			711		Level 6
S458Q02	35.25	0.38	0.994	-0.094			524		Level 3
S465Q01	22.89	0.28	0.985	0.112	-0.080	0.080	510	588	Level 4
S465Q02	41.83	0.39	0.922	-0.256			500		Level 3
S465Q04	29.14	0.35	0.562	0.561			671		Level 5
S466Q01	51.55	0.39	1.000	-0.623			434		Level 2
S466Q05	37.89	0.39	0.693	-0.164			533		Level 3
S466Q07	48.73	0.38	0.772	-0.752			427		Level 2
S476Q01	57.30	0.41	1.000	-0.617			435		Level 2
S476Q02	58.17	0.38	0.878	-0.729			423		Level 2
S476Q03	43.44	0.39	1.183	-0.302			481		Level 2
S478Q01	33.02	0.37	0.714	0.229			597		Level 4
S478Q02	34.96	0.38	1.200	-0.054			522		Level 3
S478Q03	51.11	0.40	0.974	-0.517			453		Level 2
S495Q01	25.21	0.33	0.903	0.409			613		Level 4
S495Q02	45.34	0.39	0.856	-0.251			505		Level 3
S495Q03	23.55	0.35	1.628	0.235			560		Level 4
S495Q04	27.43	0.35	0.890	0.143			569		Level 4
S498Q02	35.99	0.39	0.678	0.225			600		Level 4
S498Q03	36.74	0.39	0.497	0.487			670		Level 5
S498Q04	41.38	0.40	0.952	-0.232	-0.631	0.631	452	501	Level 3
S510Q01	48.42	0.38	0.587	-0.175			544		Level 3
S510Q04	21.04	0.31	1.176	0.321			586		Level 4
S514Q02	50.11	0.41	1.682	-0.786			387		Level 1a
S514Q03	31.04	0.34	1.196	0.086			546		Level 3
S514Q04	29.85	0.36	1.914	-0.115			497		Level 3
S519Q01	21.99	0.30	0.742	0.383	-0.246	0.246	555	648	Level 5
S519Q02	42.65	0.37	0.492	-0.200			556		Level 3
S519Q03	19.62	0.31	0.838	0.866			694		Level 5
S521Q02	42.00	0.38	0.599	-0.121			551		Level 3
S521Q06	74.22	0.33	1.545	-1.100			337		Level 1a
S524Q06	51.47	0.39	0.977	-0.355			481		Level 2
S524Q07	21.07	0.32	1.382	0.437			599		Level 4
S527Q01	11.09	0.23	1.000	1.163			735		Level 6
S527Q03	38.62	0.37	0.634	-0.067			556		Level 3
S527Q04	37.68	0.38	0.846	-0.054			539		Level 3

Table A.2 PISA 2015 main survey new science item classification

Generic ID	Item ID in analysis output	Unit name	Mode [paper-based (PB); computer-based (CB)]	Unit type	2015 main survey cluster	Sequence in main survey	Sequence in unit (field trial)
S601Q01	CS601Q01S	Sustainable Fish Farming	CB	Standard	S12	8	1 / 4
S601Q02	CS601Q02S	Sustainable Fish Farming	CB	Standard	S12	9	2 / 4
S601Q04	CS601Q04S	Sustainable Fish Farming	CB	Standard	S12	10	4 / 4
S602Q01	CS602Q01S	Urban Heat Island Effect	CB	Standard	S07	14	1 / 4
S602Q02	CS602Q02S	Urban Heat Island Effect	CB	Standard	S07	15	2 / 4
S602Q03	DS602Q03C	Urban Heat Island Effect	CB	Standard	S07	16	3 / 4
S602Q04	CS602Q04S	Urban Heat Island Effect	CB	Standard	S07	17	4 / 4
S603Q01	CS603Q01S	Elephants and Acacia Trees	CB	Standard	S07	9	1 / 5
S603Q02	DS603Q02C	Elephants and Acacia Trees	CB	Standard	S07	10	2 / 5
S603Q03	CS603Q03S	Elephants and Acacia Trees	CB	Standard	S07	11	3 / 5
S603Q04	CS603Q04S	Elephants and Acacia Trees	CB	Standard	S07	12	4 / 5
S603Q05	CS603Q05S	Elephants and Acacia Trees	CB	Standard	S07	13	5 / 5
S604Q02	CS604Q02S	Water from Fog	CB	Standard	S10	8	2 / 4
S604Q04	DS604Q04C	Water from Fog	CB	Standard	S10	9	4 / 4
S605Q01	CS605Q01S	Geothermal Energy	CB	Standard	S08	13	1 / 4
S605Q02	CS605Q02S	Geothermal Energy	CB	Standard	S08	14	2 / 4
S605Q03	CS605Q03S	Geothermal Energy	CB	Standard	S08	15	3 / 4
S605Q04	DS605Q04C	Geothermal Energy	CB	Standard	S08	16	4 / 4
S607Q01	CS607Q01S	Birds and Caterpillars	CB	Standard	S08	1	1 / 4
S607Q02	CS607Q02S	Birds and Caterpillars	CB	Standard	S08	2	2 / 4
S607Q03	DS607Q03C	Birds and Caterpillars	CB	Standard	S08	3	3 / 4
S608Q01	CS608Q01S	Ammonoids	CB	Standard	S08	9	1 / 4
S608Q02	CS608Q02S	Ammonoids	CB	Standard	S08	10	2 / 4
S608Q03	CS608Q03S	Ammonoids	CB	Standard	S08	11	3 / 4
S608Q04	DS608Q04C	Ammonoids	CB	Standard	S08	12	4 / 4
S610Q01	DS610Q01C	Brain-Controlled Robotics	CB	Standard	S12	11	1 / 3
S610Q02	CS610Q02S	Brain-Controlled Robotics	CB	Standard	S12	12	2 / 3
S610Q04	CS610Q04S	Brain-Controlled Robotics	CB	Standard	S12	13	3 / 3
S615Q01	CS615Q01S	Understanding Tsunamis	CB	Interactive	S10	5	2 / 5
S615Q02	CS615Q02S	Understanding Tsunamis	CB	Interactive	S10	6	3 / 5
S615Q05	CS615Q05S	Understanding Tsunamis	CB	Interactive	S10	7	5 / 5
S615Q07	CS615Q07S	Understanding Tsunamis	CB	Interactive	S10	4	1 / 5
S620Q01	CS620Q01S	Tornadoes	CB	Standard	S09	10	2 / 5
S620Q02	CS620Q02S	Tornadoes	CB	Standard	S09	11	3 / 5
S620Q04	DS620Q04C	Tornadoes	CB	Standard	S09	12	4 / 5
S625Q01	DS625Q01C	Wildfires and the Fire Triangle	CB	Standard	S10	1	1 / 3
S625Q02	CS625Q02S	Wildfires and the Fire Triangle	CB	Standard	S10	2	2 / 3
S625Q03	CS625Q03S	Wildfires and the Fire Triangle	CB	Standard	S10	3	3 / 3
S626Q01	CS626Q01S	Sounds in Marine Habitats	CB	Standard	S12	14	1 / 4
S626Q02	CS626Q02S	Sounds in Marine Habitats	CB	Standard	S12	15	2 / 4
S626Q03	CS626Q03S	Sounds in Marine Habitats	CB	Standard	S12	16	3 / 4
S626Q04	DS626Q04C	Sound in Marine Habitats	CB	Standard	S12	17	4 / 4
S627Q01	CS627Q01S	Car Tyres	CB	Standard	S07	1	1 / 3
S627Q03	CS627Q03S	Car Tyres	CB	Standard	S07	2	2 / 3
S627Q04	CS627Q04S	Car Tyres	CB	Standard	S07	3	3 / 3
S629Q01	DS629Q01C	Solar Cooker	CB	Standard	S11	9	1 / 4
S629Q02	CS629Q02S	Solar Cooker	CB	Standard	S11	10	2 / 4
S629Q03	DS629Q03C	Solar Cooker	CB	Standard	S11	11	3 / 4
S629Q04	CS629Q04S	Solar Cooker	CB	Standard	S11	12	4 ./ 4
S634Q01	CS634Q01S	Vaccination and Spreading of Disease	CB	Interactive	S09	5	1 / 5

Table A.2 PISA 2015 main survey new science item classification

Generic ID	Item ID in analysis output	Unit name	Mode [paper-based (PB); computer-based (CB)]	Unit type	2015 main survey cluster	Sequence in main survey	Sequence in unit (field trial)
S634Q02	CS634Q02S	Vaccination and Spreading of Disease	CB	Interactive	S09	6	2 / 5
S634Q03	DS634Q03C	Vaccination and Spreading of Disease	CB	Interactive	S09	7	3 / 5
S634Q04	CS634Q04S	Vaccination and Spreading of Disease	CB	Interactive	S09	9	5 / 5
S634Q05	DS634Q05C	Vaccination and Spreading of Disease	CB	Interactive	S09	8	4 / 5
S635Q01	CS635Q01S	Save the Fish	CB	Interactive	S07	4	1 / 6
S635Q02	CS635Q02S	Save the Fish	CB	Interactive	S07	5	2 / 6
S635Q03	DS635Q03C	Save the Fish	CB	Interactive	S07	6	3 / 6
S635Q04	CS635Q04S	Save the Fish	CB	Interactive	S07	7	4 / 6
S635Q05	DS635Q05C	Save the Fish	CB	Interactive	S07	8	5 / 6
S637Q01	DS637Q01C	Slope-Face Investigation	CB	Standard	S12	5	1 / 4
S637Q02	CS637Q02S	Slope-Face Investigation	CB	Standard	S12	6	2 / 4
S637Q05	DS637Q05C	Slope-Face Investigation	CB	Standard	S12	7	4 / 4
S638Q01	CS638Q01S	Oil Spills	CB	Standard	S09	13	1 / 5
S638Q02	CS638Q02S	Oil Spills	CB	Standard	S09	14	2 / 5
S638Q04	CS638Q04S	Oil Spills	CB	Standard	S09	15	4 / 5
S638Q05	DS638Q05C	Oil Spills	CB	Standard	S09	16	5 / 5
S641Q01	CS641Q01S	Meteoroids and Craters	CB	Standard	S12	1	1 / 3
S641Q02	CS641Q02S	Meteoroids and Craters	CB	Standard	S12	2	2 / 3
S641Q03	CS641Q03S	Meteoroids and Craters	CB	Standard	S12	3	3 / 3
S641Q04	CS641Q04S	Meteoroids and Craters	CB	Standard	S12	4	3 / 3
S643Q01	CS643Q01S	Comparing Light Bulbs	CB	Interactive	S11	5	2 / 5
S643Q02	CS643Q02S	Comparing Light Bulbs	CB	Interactive	S11	6	3 / 5
S643Q03	DS643Q03C	Comparing Light Bulbs	CB	Interactive	S11	4	1 / 5
S643Q04	CS643Q04S	Comparing Light Bulbs	CB	Interactive	S11	7	4 / 5
S643Q05	DS643Q05C	Comparing Light Bulbs	CB	Interactive	S11	8	5 / 5
S645Q01	CS645Q01S	Carbon Dioxide in Earth's Atmosphere	CB	Standard	S10	10	1 / 4
S645Q03	CS645Q03S	Carbon Dioxide in Earth's Atmosphere	CB	Standard	S10	11	2 / 4
S645Q04	DS645Q04C	Carbon Dioxide in Earth's Atmosphere	CB	Standard	S10	12	3 / 4
S645Q05	DS645Q05C	Carbon Dioxide in Earth's Atmosphere	CB	Standard	S10	13	4 / 4
S646Q01	CS646Q01S	Nanoparticles	CB	Interactive	S08	4	1 / 5
S646Q02	CS646Q02S	Nanoparticles	CB	Interactive	S08	5	2 / 5
S646Q03	CS646Q03S	Nanoparticles	CB	Interactive	S08	6	3 / 5
S646Q04	DS646Q04C	Nanoparticles	CB	Interactive	S08	7	4 / 5
S646Q05	DS646Q05C	Nanoparticles	CB	Interactive	S08	8	5 / 5
S648Q01	DS648Q01C	Habitable Zone	CB	Standard	S11	13	1 / 5
S648Q02	CS648Q02S	Habitable Zone	CB	Standard	S11	14	2 / 5
S648Q03	CS648Q03S	Habitable Zone	CB	Standard	S11	15	3 / 5
S648Q05	DS648Q05C	Habitable Zone	CB	Standard	S11	16	5 / 5
S649Q01	CS649Q01S	Weather Balloon	CB	Standard	S09	1	1 / 4
S649Q02	DS649Q02C	Weather Balloon	CB	Standard	S09	2	2 / 4
S649Q03	CS649Q03S	Weather Balloon	CB	Standard	S09	3	3 / 4
S649Q04	CS649Q04S	Weather Balloon	CB	Standard	S09	4	4 / 4
S656Q01	CS656Q01S	Bird Migration	CB	Standard	S11	1	1 / 5
S656Q02	DS656Q02C	Bird Migration	CB	Standard	S11	2	2 / 5
S656Q04	CS656Q04S	Bird Migration	CB	Standard	S11	3	3 / 5
S657Q01	CS657Q01S	Invasive Species	CB	Standard	S10	14	1 / 4
S657Q02	CS657Q02S	Invasive Species	CB	Standard	S10	15	2 / 4
S657Q03	CS657Q03S	Invasive Species	CB	Standard	S10	16	3 / 4
S657Q04	DS657Q04C	Invasive Species	CB	Standard	S10	17	4 / 4

[Part 3/8]

Table A.2 PISA 2015 main survey new science item classification

Generic ID	Item format – CBA	Context 1 (2015)	Context 2	Competency (2015)	Knowledge (2015)	System (2015)
S601Q01	Complex Multiple Choice – Computer Scored	Local/ National	Natural Resources	Explain phenomena scientifically	Content	Living
S601Q02	Simple Multiple Choice – Computer Scored	Local/ National	Environmental Quality	Interpret data and evidence scientifically	Content	Living
S601Q04	Simple Multiple Choice – Computer Scored	Local/ National	Environmental Quality	Explain phenomena scientifically	Content	Physical
S602Q01	Complex Multiple Choice – Computer Scored	Local/ National	Environmental Quality	Interpret data and evidence scientifically	Procedural	Earth and Space
S602Q02	Complex Multiple Choice – Computer Scored	Local/ National	Environmental Quality	Explain phenomena scientifically	Content	Earth and Space
S602Q03	Open Response – Human Coded	Local/ National	Environmental Quality	Explain phenomena scientifically	Content	Physical
S602Q04	Complex Multiple Choice – Computer Scored	Local/ National	Environmental Quality	Interpret data and evidence scientifically	Procedural	Living
S603Q01	Simple Multiple Choice – Computer Scored	Local/ National	Natural Resources	Interpret data and evidence scientifically	Procedural	Living
S603Q02	Open Response - Human Coded	Local/ National	Natural Resources	Evaluate and design scientific enquiry	Epistemic	Living
S603Q03	Simple Multiple Choice – Computer Scored	Local/ National	Natural Resources	Explain phenomena scientifically	Procedural	Living
S603Q04	Simple Multiple Choice – Computer Scored	Local/ National	Natural Resources	Explain phenomena scientifically	Content	Living
S603Q05	Simple Multiple Choice – Computer Scored	Local/ National	Natural Resources	Evaluate and design scientific enquiry	Procedural	Living
S604Q02	Complex Multiple Choice – Computer Scored	Global	Natural Resources	Explain phenomena scientifically	Content	Physical
S604Q04	Open Response - Human Coded	Global	Natural Resources	Evaluate and design scientific enquiry	Epistemic	Physical
S605Q01	Complex Multiple Choice – Computer Scored	Local/ National	Frontiers	Explain phenomena scientifically	Content	Earth and Space
S605Q02	Complex Multiple Choice – Computer Scored	Local/ National	Natural Resources	Interpret data and evidence scientifically	Content	Earth and Space
S605Q03	Simple Multiple Choice – Computer Scored	Global	Environmental Quality	Interpret data and evidence scientifically	Procedural	Physical
S605Q04	Open Response – Human Coded	Local/ National	Natural Resources	Explain phenomena scientifically	Content	Earth and Space
S607Q01	Simple Multiple Choice – Computer Scored	Local/ National	Environmental Quality	Explain phenomena scientifically	Content	Living
S607Q02	Complex Multiple Choice – Computer Scored	Local/ National	Environmental Quality	Explain phenomena scientifically	Content	Living
S607Q03	Open Response - Human Coded	Local/ National	Environmental Quality	Explain phenomena scientifically	Content	Living
S608Q01	Complex Multiple Choice – Computer Scored	Local/ National	Frontiers	Explain phenomena scientifically	Content	Earth and Space
S608Q02	Complex Multiple Choice – Computer Scored	Global	Frontiers	Interpret data and evidence scientifically	Epistemic	Living
S608Q03	Simple Multiple Choice – Computer Scored	Global	Frontiers	Explain phenomena scientifically	Content	Physical
S608Q04	Open Response – Human Coded	Local/ National	Natural Resources	Interpret data and evidence scientifically	Procedural	Earth and Space
S610Q01	Open Response – Human Coded	Personal	Health & Disease	Explain phenomena scientifically	Content	Living
S610Q02	Simple Multiple Choice – Computer Scored	Personal	Health & Disease	Explain phenomena scientifically	Content	Living
S610Q04	Complex Multiple Choice – Computer Scored	Personal	Frontiers	Evaluate and design scientific enquiry	Content	Living
S615Q01	Complex Multiple Choice – Computer Scored	Global	Hazards	Interpret data and evidence scientifically	Procedural	Earth and Space
S615Q02	Open Response – Computer Scored	Global	Hazards	Interpret data and evidence scientifically	Procedural	Earth and Space
S615Q05	Complex Multiple Choice – Computer Scored	Global	Hazards	Explain phenomena scientifically	Epistemic	Earth and Space
S615Q07	Complex Multiple Choice – Computer Scored	Global	Hazards	Interpret data and evidence scientifically	Procedural	Earth and Space
S620Q01	Simple Multiple Choice – Computer Scored	Local/ National	Hazards	Interpret data and evidence scientifically	Procedural	Earth and Space
S620Q02	Complex Multiple Choice – Computer Scored	Local/ National	Hazards	Interpret data and evidence scientifically	Procedural	Earth and Space
S620Q04	Open Response – Human Coded	Local/ National	Hazards	Evaluate and design scientific enquiry	Epistemic	Earth and Space
S625Q01	Open Response – Human Coded	Local/ National	Hazards	Explain phenomena scientifically	Content	Physical
S625Q02	Simple Multiple Choice – Computer Scored	Local/ National	Hazards	Explain phenomena scientifically	Content	Physical
S625Q03	Complex Multiple Choice – Computer Scored	Local/ National	Hazards	Explain phenomena scientifically	Content	Physical
S626Q01	Simple Multiple Choice – Computer Scored	Local/ National	Environmental Quality	Explain phenomena scientifically	Content	Physical
S626Q02	Simple Multiple Choice – Computer Scored	Local/ National	Environmental Quality	Evaluate and design scientific enquiry	Procedural	Physical
S626Q03	Simple Multiple Choice – Computer Scored	Local/ National	Environmental Quality	Interpret data and evidence scientifically	Procedural	Physical
S626Q04	Open Response - Human Coded	Local/ National	Environmental Quality	Interpret data and evidence scientifically	Procedural	Living
S627Q01	Simple Multiple Choice - Computer Scored	Personal	Frontiers	Explain phenomena scientifically	Content	Physical
S627Q03	Complex Multiple Choice - Computer Scored	Personal	Frontiers	Explain phenomena scientifically	Content	Physical
S627Q04	Complex Multiple Choice - Computer Scored	Personal	Hazards	Evaluate and design scientific enquiry	Epistemic	Physical
S629Q01	Open Response - Human Coded	Local/ National	Natural Resources	Explain phenomena scientifically	Content	Physical
S629Q02	Complex Multiple Choice - Computer Scored	Local/ National	Natural Resources	Explain phenomena scientifically	Content	Physical
S629Q03	Open Response - Human Coded	Local/ National	Natural Resources	Interpret data and evidence scientifically	Procedural	Earth and Space
S629Q04	Complex Multiple Choice - Computer Scored	Local/ National	Natural Resources	Evaluate and design scientific enquiry	Epistemic	Physical
S634Q01	Complex Multiple Choice - Computer Scored	Global	Health & Disease	Interpret data and evidence scientifically	Procedural	Living

[Part 4/8]

Table A.2 PISA 2015 main survey new science item classification

Generic ID	Item format – CBA	Context 1 (2015)	Context 2	Competency (2015)	Knowledge (2015)	System (2015)
S634Q02	Complex Multiple Choice - Computer Scored	Global	Health & Disease	Interpret data and evidence scientifically	Procedural	Living
S634Q03	Open Response - Human Coded	Global	Health & Disease	Explain phenomena scientifically	Procedural	Living
S634Q04	Complex Multiple Choice - Computer Scored	Global	Health & Disease	Evaluate and design scientific enquiry	Epistemic	Living
S634Q05	Open Response - Human Coded	Global	Health & Disease	Evaluate and design scientific enquiry	Epistemic	Living
S635Q01	Complex Multiple Choice - Computer Scored	Local/ National	Natural Resources	Explain phenomena scientifically	Content	Living
S635Q02	Complex Multiple Choice - Computer Scored	Local/ National	Natural Resources	Evaluate and design scientific enquiry	Procedural	Living
S635Q03	Open Response - Human Coded	Local/ National	Natural Resources	Evaluate and design scientific enquiry	Procedural	Living
S635Q04	Open Response - Computer Scored	Local/ National	Natural Resources	Evaluate and design scientific enquiry	Procedural	Living
S635Q05	Open Response - Human Coded	Local/ National	Natural Resources	Explain phenomena scientifically	Procedural	Living
S637Q01	Open Response - Human Coded	Local/ National	Natural Resources	Evaluate and design scientific enquiry	Epistemic	Earth and Space
S637Q02	Complex Multiple Choice - Computer Scored	Local/ National	Natural Resources	Evaluate and design scientific enquiry	Epistemic	Earth and Space
S637Q05	Open Response - Human Coded	Local/ National	Natural Resources	Interpret data and evidence scientifically	Epistemic	Earth and Space
S638Q01	Complex Multiple Choice - Computer Scored	Global	Environmental Quality	Explain phenomena scientifically	Content	Earth and Space
S638Q02	Complex Multiple Choice - Computer Scored	Global	Environmental Quality	Explain phenomena scientifically	Content	Earth and Space
S638Q04	Complex Multiple Choice - Computer Scored	Global	Frontiers	Evaluate and design scientific enquiry	Epistemic	Living
S638Q05	Open Response - Human Coded	Global	Frontiers	Explain phenomena scientifically	Content	Living
S641Q01	Simple Multiple Choice - Computer Scored	Global	Frontiers	Explain phenomena scientifically	Content	Physical
S641Q02	Complex Multiple Choice - Computer Scored	Global	Frontiers	Explain phenomena scientifically	Content	Earth and Space
S641Q03	Complex Multiple Choice - Computer Scored	Global	Frontiers	Interpret data and evidence scientifically	Content	Earth and Space
S641Q04	Complex Multiple Choice - Computer Scored	Global	Frontiers	Interpret data and evidence scientifically	Content	Earth and Space
S643Q01	Simple Multiple Choice - Computer Scored	Personal	Frontiers	Interpret data and evidence scientifically	Procedural	Physical
S643Q02	Complex Multiple Choice - Computer Scored	Personal	Frontiers	Evaluate and design scientific enquiry	Procedural	Physical
S643Q03	Open Response - Human Coded	Personal	Frontiers	Explain phenomena scientifically	Content	Physical
S643Q04	Complex Multiple Choice - Computer Scored	Personal	Frontiers	Evaluate and design scientific enquiry	Procedural	Physical
S643Q05	Open Response - Human Coded	Personal	Frontiers	Evaluate and design scientific enquiry	Epistemic	Physical
S645Q01	Complex Multiple Choice - Computer Scored	Global	Natural Resources	Explain phenomena scientifically	Content	Earth and Space
S645Q03	Complex Multiple Choice - Computer Scored	Global	Natural Resources	Explain phenomena scientifically	Content	Earth and Space
S645Q04	Open Response - Human Coded	Global	Natural Resources	Explain phenomena scientifically	Content	Earth and Space
S645Q05	Open Response - Human Coded	Global	Natural Resources	Explain phenomena scientifically	Content	Earth and Space
S646Q01	Simple Multiple Choice - Computer Scored	Global	Frontiers	Interpret data and evidence scientifically	Procedural	Physical
S646Q02	Open Response - Computer Scored	Global	Frontiers	Evaluate and design scientific enquiry	Procedural	Physical
S646Q03	Simple Multiple Choice - Computer Scored	Global	Frontiers	Evaluate and design scientific enquiry	Procedural	Physical
S646Q04	Open Response - Human Coded	Global	Frontiers	Explain phenomena scientifically	Procedural	Physical
S646Q05	Open Response - Human Coded	Global	Frontiers	Evaluate and design scientific enquiry	Epistemic	Physical
S648Q01	Open Response - Human Coded	Global	Frontiers	Interpret data and evidence scientifically	Procedural	Earth and Space
S648Q02	Complex Multiple Choice - Computer Scored	Global	Frontiers	Interpret data and evidence scientifically	Procedural	Earth and Space
S648Q03	Complex Multiple Choice - Computer Scored	Global	Frontiers	Interpret data and evidence scientifically	Procedural	Earth and Space
S648Q05	Open Response - Human Coded	Global	Frontiers	Explain phenomena scientifically	Epistemic	Earth and Space
S649Q01	Simple Multiple Choice - Computer Scored	Local/ National	Frontiers	Explain phenomena scientifically	Content	Physical
S649Q02	Open Response - Human Coded	Local/ National	Frontiers	Explain phenomena scientifically	Content	Physical
S649Q03	Complex Multiple Choice - Computer Scored	Local/ National	Frontiers	Explain phenomena scientifically	Content	Physical
S649Q04	Simple Multiple Choice - Computer Scored	Local/ National	Frontiers	Explain phenomena scientifically	Content	Physical
S656Q01	Simple Multiple Choice - Computer Scored	Global	Environmental Quality	Explain phenomena scientifically	Content	Living
S656Q02	Open Response - Human Coded	Global	Environmental Quality	Evaluate and design scientific enquiry	Procedural	Living
S656Q04	Complex Multiple Choice - Computer Scored	Global	Environmental Quality	Interpret data and evidence scientifically	Procedural	Living
S657Q01	Complex Multiple Choice - Computer Scored	Local/ National	Environmental Quality	Explain phenomena scientifically	Content	Living
S657Q02	Simple Multiple Choice - Computer Scored	Local/ National	Environmental Quality	Explain phenomena scientifically	Content	Living
S657Q03	Simple Multiple Choice - Computer Scored	Local/ National	Environmental Quality	Interpret data and evidence scientifically	Procedural	Living
S657Q04	Open Response - Human Coded	Local/ National	Environmental Quality	Explain phenomena scientifically	Content	Living

Table A.2 PISA 2015 main survey new science item classification

Generic ID	Depth of knowledge	Source	Unit origin	Language of submission	International % correct	International % correct S.E.
S601Q01	Medium	2015	Netherlands	English	5.48	0.09
S601Q02	Low	2015	Netherlands	English	62.79	0.20
S601Q04	Low	2015	Netherlands	English	35.48	0.19
S602Q01	Low	2015	University of Luxembourg (International Test Development Team)	English	76.40	0.17
S602Q02	Low	2015	University of Luxembourg (International Test Development Team)	English	30.24	0.19
S602Q03	Medium	2015	University of Luxembourg (International Test Development Team)	English	23.55	0.17
S602Q04	Low	2015	University of Luxembourg (International Test Development Team)	English	67.53	0.20
S603Q01	Low	2015	Singapore	English	69.68	0.19
S603Q02	Medium	2015	Singapore	English	31.29	0.19
S603Q03	Low	2015	Singapore	English	66.03	0.19
S603Q04	Medium	2015	Singapore	English	52.66	0.20
S603Q05	Medium	2015	Singapore	English	52.66	0.20
S604Q02	Medium	2015	Singapore	English	40.70	0.19
S604Q04	Medium	2015	Singapore	English	24.65	0.17
S605Q01	Medium	2015	France	French	37.80	0.19
S605Q02	Medium	2015	France	French	28.75	0.19
S605Q03	Medium	2015	France	French	51.94	0.20
S605Q04	Medium	2015	France	French	52.23	0.20
S607Q01	Low	2015	Singapore	English	79.42	0.16
S607Q02	Low	2015	Singapore	English	43.81	0.20
S607Q03	High	2015	Singapore	English	38.35	0.17
S608Q01	Low	2015	France	French	32.48	0.18
S608Q02	Medium	2015	France	French	56.40	0.20
S608Q03	Medium	2015	France	French	40.08	0.20
S608Q04	Medium	2015	France	French	42.36	0.21
S610Q01	Medium	2015	Spain	Spanish	25.93	0.17
S610Q02	Low	2015	Spain	Spanish	82.10	0.15
S610Q04	Medium	2015	Spain	Spanish	43.85	0.20
S615Q01	Medium	2015	Chinese Taipei	English	76.93	0.17
S615Q02	Medium	2015	Chinese Taipei	English	38.33	0.20
S615Q05	Medium	2015	Chinese Taipei	English	17.36	0.15
S615Q07	Medium	2015	Chinese Taipei	English	26.86	0.18
S620Q01	Medium	2015	Czech Republic	English	78.08	0.17
S620Q02	Medium	2015	Czech Republic	English	32.86	0.19
S620Q04	High	2015	Czech Republic	English	31.09	0.19
S625Q01	Low	2015	Australia	English	39.57	0.20
S625Q02	Low	2015	Australia	English	56.76	0.19
S625Q03	Medium	2015	Australia	English	51.44	0.20
S626Q01	Medium	2015	University of Luxembourg (International Test Development Team)	English	56.15	0.20
S626Q02	Medium	2015	University of Luxembourg (International Test Development Team)	English	48.27	0.20
S626Q03	Medium	2015	University of Luxembourg (International Test Development Team)	English	63.51	0.20
S626Q04	Medium	2015	University of Luxembourg (International Test Development Team)	English	48.34	0.21
S627Q01	Low	2015	Korea	English	39.80	0.19
S627Q03	Medium	2015	Korea	English	71.32	0.18
S627Q04	Low	2015	Korea	English	57.69	0.19
S629Q01	Medium	2015	Viet Nam	English	54.31	0.18
S629Q02	Medium	2015	Viet Nam	English	37.96	0.19
S629Q03	Medium	2015	Viet Nam	English	49.72	0.20
S629Q04	Medium	2015	Viet Nam	English	50.35	0.20
S634Q01	Medium	2015	Israel - CET (International Test Development Team)	English	15.96	0.15

[Part 6/8]

Table A.2 **PISA 2015 main survey new science item classification**

Generic ID	Depth of knowledge	Source	Unit origin	Language of submission	International % correct	International % correct S.E.
S634Q02	Medium	2015	Israel - CET (International Test Development Team)	English	30.60	0.15
S634Q03	Medium	2015	Israel - CET (International Test Development Team)	English	16.49	0.15
S634Q04	High	2015	Israel - CET (International Test Development Team)	English	44.30	0.20
S634Q05	Medium	2015	Israel - CET (International Test Development Team)	English	10.27	0.12
S635Q01	Low	2015	Australia	English	51.32	0.17
S635Q02	Low	2015	Australia	English	66.07	0.19
S635Q03	Medium	2015	Australia	English	36.14	0.19
S635Q04	High	2015	Australia	English	41.46	0.16
S635Q05	High	2015	Australia	English	13.74	0.13
S637Q01	Medium	2015	Israel - CET (International Test Development Team)	English	47.51	0.20
S637Q02	Medium	2015	Israel - CET (International Test Development Team)	English	14.53	0.10
S637Q05	High	2015	Israel - CET (International Test Development Team)	English	31.89	0.19
S638Q01	Medium	2015	Korea	English	47.75	0.20
S638Q02	Low	2015	Korea	English	72.44	0.18
S638Q04	Medium	2015	Korea	English	26.98	0.18
S638Q05	Medium	2015	Korea	English	49.56	0.26
S641Q01	Low	2015	US - ETS (International Test Development Team)	English	55.83	0.19
S641Q02	Low	2015	US - ETS (International Test Development Team)	English	64.76	0.19
S641Q03	Low	2015	US - ETS (International Test Development Team)	English	88.29	0.13
S641Q04	Medium	2015	US - ETS (International Test Development Team)	English	67.05	0.19
S643Q01	Medium	2015	Japan	Japanese	64.15	0.19
S643Q02	Medium	2015	Japan	Japanese	50.59	0.20
S643Q03	Low	2015	Japan	Japanese	28.55	0.19
S643Q04	Medium	2015	Japan	Japanese	24.47	0.17
S643Q05	Medium	2015	Japan	Japanese	21.06	0.16
S645Q01	Low	2015	Spain	Spanish	50.05	0.18
S645Q03	Medium	2015	Spain	Spanish	51.84	0.20
S645Q04	Medium	2015	Spain	Spanish	49.51	0.20
S645Q05	Medium	2015	Spain	Spanish	22.39	0.16
S646Q01	Low	2015	Chinese Taipei	English	75.69	0.17
S646Q02	Medium	2015	Chinese Taipei	English	47.16	0.20
S646Q03	Medium	2015	Chinese Taipei	English	65.91	0.19
S646Q04	High	2015	Chinese Taipei	English	25.30	0.18
S646Q05	Medium	2015	Chinese Taipei	English	11.48	0.16
S648Q01	Medium	2015	US - ETS (International Test Development Team)	English	33.66	0.20
S648Q02	Medium	2015	US - ETS (International Test Development Team)	English	37.24	0.19
S648Q03	Medium	2015	US - ETS (International Test Development Team)	English	57.29	0.20
S648Q05	Medium	2015	US - ETS (International Test Development Team)	English	35.53	0.22
S649Q01	Medium	2015	Sweden	English	24.89	0.17
S649Q02	Low	2015	Sweden	English	14.51	0.14
S649Q03	Medium	2015	Sweden	English	27.21	0.18
S649Q04	Medium	2015	Sweden	English	42.52	0.20
S656Q01	Medium	2015	Netherlands	English	54.14	0.20
S656Q02	High	2015	Netherlands	English	27.69	0.18
S656Q04	Medium	2015	Netherlands	English	36.25	0.19
S657Q01	Low	2015	University of Luxembourg (International Test Development Team)	English	67.14	0.19
S657Q02	Medium	2015	University of Luxembourg (International Test Development Team)	English	37.32	0.20
S657Q03	Medium	2015	University of Luxembourg (International Test Development Team)	English	45.36	0.21
S657Q04	Medium	2015	University of Luxembourg (International Test Development Team)	English	26.63	0.17

[Part 7/8]

Table A.2 PISA 2015 main survey new science item classification

| Generic ID | Item parameters (RP = 0.50) | | | | Thresholds (RP = 0.62) | | Level |
	Slope	Difficulty	Step 1	Step 2	1,00	2,00	
S601Q01	1.652	1.306			740		Level 6
S601Q02	1.375	-0.413			456		Level 2
S601Q04	1.033	0.283			585		Level 4
S602Q01	1.440	-0.808			388		Level 1a
S602Q02	0.810	0.613			654		Level 5
S602Q03	1.061	0.714			657		Level 5
S602Q04	1.277	-0.558			435		Level 2
S603Q01	1.759	-0.540			427		Level 2
S603Q02	1.518	0.328			578		Level 4
S603Q03	1.114	-0.528			445		Level 2
S603Q04	0.721	-0.201			524		Level 3
S603Q05	1.139	-0.172			504		Level 3
S604Q02	0.979	0.172			569		Level 4
S604Q04	1.232	0.590			629		Level 4
S605Q01	1.040	0.231			576		Level 4
S605Q02	1.578	0.388			587		Level 4
S605Q03	0.683	-0.182			531		Level 3
S605Q04	1.157	-0.096	0.027	-0.027	475	550	Level 3
S607Q01	1.290	-0.931			372		Level 1a
S607Q02	1.646	0.045			528		Level 3
S607Q03	0.814	0.198	-0.308	0.308	524	603	Level 4
S608Q01	0.577	0.794			708		Level 6
S608Q02	1.381	-0.270			480		Level 2
S608Q03	0.671	0.265			608		Level 4
S608Q04	1.901	0.047			524		Level 3
S610Q01	1.269	0.577			626		Level 4
S610Q02	1.266	-1.039			354		Level 1a
S610Q04	1.581	0.037			528		Level 3
S615Q01	1.461	-0.805			388		Level 1a
S615Q02	1.604	0.146			546		Level 3
S615Q05	0.478	1.953			921		Level 6
S615Q07	1.497	0.450			599		Level 4
S620Q01	1.058	-0.967			374		Level 1a
S620Q02	0.994	0.414			609		Level 4
S620Q04	1.245	0.397			596		Level 4
S625Q01	1.406	0.140			549		Level 3
S625Q02	0.830	-0.431			477		Level 2
S625Q03	1.069	-0.186			505		Level 3
S626Q01	0.796	-0.334			495		Level 3
S626Q02	0.933	-0.056			533		Level 3
S626Q03	1.142	-0.466			455		Level 2
S626Q04	2.053	-0.066			503		Level 3
S627Q01	0.672	0.376			626		Level 4
S627Q03	0.932	-0.798			408		Level 1a
S627Q04	0.907	-0.400			477		Level 2
S629Q01	0.700	-0.198	-0.392	0.392	457	547	Level 3
S629Q02	0.918	0.248			585		Level 4
S629Q03	1.396	-0.111			507		Level 3
S629Q04	0.857	-0.137			524		Level 3
S634Q01	1.581	0.793			655		Level 5

[Part 8/8]

Table A.2 PISA 2015 main survey new science item classification

Generic ID	Item parameters (RP = 0.50)				Thresholds (RP = 0.62)		Level
	Slope	Difficulty	Step 1	Step 2	1.00	2.00	
S634Q02	1.152	0.431	0.301	-0.301	563	669	Level 5
S634Q03	1.630	0.762			649		Level 5
S634Q04	1.497	0.024			527		Level 3
S634Q05	1.547	1.050			699		Level 5
S635Q01	0.678	-0.166	0.103	-0.103	463	596	Level 4
S635Q02	1.365	-0.504			441		Level 2
S635Q03	2.188	0.166			541		Level 3
S635Q04	1.061	0.111	0.271	-0.271	509	617	Level 4
S635Q05	1.487	0.752	-0.212	0.212	617	658	Level 5
S637Q01	1.356	-0.054			517		Level 3
S637Q02	0.486	1.955	0.512	-0.512	820	1045	Level 6
S637Q05	1.334	0.370			589		Level 4
S638Q01	1.530	-0.051			514		Level 3
S638Q02	1.405	-0.667			413		Level 2
S638Q04	1.069	0.592			636		Level 5
S638Q05	1.571	0.048			530		Level 3
S641Q01	0.649	-0.490			483		Level 2
S641Q02	1.036	-0.520			450		Level 2
S641Q03	1.133	-1.395			299		Level 1b
S641Q04	1.316	-0.530			438		Level 2
S643Q01	2.177	-0.392			447		Level 2
S643Q02	1.993	-0.111			496		Level 3
S643Q03	1.427	0.476			605		Level 4
S643Q04	1.809	0.465			596		Level 4
S643Q05	1.086	0.794			669		Level 5
S645Q01	0.742	-0.127	-0.329	0.329	469	557	Level 3
S645Q03	1.092	-0.201			501		Level 3
S645Q04	1.722	-0.084			505		Level 3
S645Q05	1.287	0.847			671		Level 5
S646Q01	1.892	-0.692			400		Level 1a
S646Q02	1.243	-0.045			522		Level 3
S646Q03	1.335	-0.511			441		Level 2
S646Q04	1.513	0.523			611		Level 4
S646Q05	1.549	0.997			690		Level 5
S648Q01	1.898	0.247			558		Level 3
S648Q02	0.946	0.277			589		Level 4
S648Q03	0.511	-0.472			506		Level 3
S648Q05	1.445	0.369			586		Level 4
S649Q01	0.516	1.255			796		Level 6
S649Q02	1.061	1.279			752		Level 6
S649Q03	1.151	0.541			624		Level 4
S649Q04	0.630	0.222			605		Level 4
S656Q01	1.004	-0.228			501		Level 3
S656Q02	1.046	0.552			630		Level 4
S656Q04	1.175	0.247			574		Level 4
S657Q01	0.756	-0.814			418		Level 2
S657Q02	0.686	0.423			633		Level 4
S657Q03	1.107	0.031			540		Level 3
S657Q04	0.959	0.640	0.150	-0.150	598	701	Level 5

[Part 1/8]

Table A.3 PISA 2015 main survey trend reading item classification

Generic ID	CBA item ID in main survey analysis output	PBA item ID in main survey analysis output	Unit name	Mode [paper-based (PB); computer-based (CB)]	2015 field trial and main survey cluster	Sequence in cluster	Sequence in unit	Item format – CBA
R055Q01	CR055Q01S	PR055Q01S	Drugged Spiders	PB and CB	R02	9	1/4	Simple Multiple Choice – Computer Scored
R055Q02	DR055Q02C	R055Q02	Drugged Spiders	PB and CB	R02	10	2/4	Open Response – Human Coded
R055Q03	DR055Q03C	R055Q03	Drugged Spiders	PB and CB	R02	11	3/4	Open Response – Human Coded
R055Q05	DR055Q05C	R055Q05	Drugged Spiders	PB and CB	R02	12	4/4	Open Response – Human Coded
R067Q01	CR067Q01S	PR067Q01S	Aesop	PB and CB	R01	8	1/3	Simple Multiple Choice – Computer Scored
R067Q04	DR067Q04C	R067Q04	Aesop	PB and CB	R01	9	2/3	Open Response – Human Coded
R067Q05	DR067Q05C	R067Q05	Aesop	PB and CB	R01	10	3/3	Open Response – Human Coded
R083Q01	CR083Q01S	PR083Q01S	Household Work	PB and CB	R06A	1	1/4	Simple Multiple Choice – Computer Scored
R083Q02	CR083Q02S	R083Q02	Household Work	PB and CB	R06A	2	2/4	Open Response – Computer Scored
R083Q03	CR083Q03S	R083Q03	Household Work	PB and CB	R06A	3	3/4	Simple Multiple Choice – Computer Scored
R083Q04	CR083Q04S	PR083Q04S	Household Work	PB and CB	R06A	4	4/4	Simple Multiple Choice – Computer Scored
R101Q01	CR101Q01S	PR101Q01S	Rhino	PB and CB	R06A	12	1/5	Simple Multiple Choice – Computer Scored
R101Q02	CR101Q02S	PR101Q02S	Rhino	PB and CB	R06A	13	2/5	Simple Multiple Choice – Computer Scored
R101Q03	CR101Q03S	PR101Q03S	Rhino	PB and CB	R06A	14	3/5	Simple Multiple Choice – Computer Scored
R101Q04	CR101Q04S	PR101Q04S	Rhino	PB and CB	R06A	15	4/5	Simple Multiple Choice – Computer Scored
R101Q05	CR101Q05S	PR101Q05S	Rhino	PB and CB	R06A	16	5/5	Simple Multiple Choice – Computer Scored
R102Q04	DR102Q04C	R102Q04A	Shirts	PB and CB	R01	7	1/3	Open Response – Human Coded
R102Q05	DR102Q05C	R102Q05	Shirts	PB and CB	R01	8	2/3	Open Response – Human Coded
R102Q07	CR102Q07S	PR102Q07S	Shirts	PB and CB	R01	9	3/3	Simple Multiple Choice – Computer Scored
R104Q01	CR104Q01S	R104Q01	Telephone	PB and CB	R02	13	1/3	Open Response – Computer Scored
R104Q02	CR104Q02S	R104Q02	Telephone	PB and CB	R02	14	2/3	Open Response – Computer Scored
R104Q05	CR104Q05S	R104Q05	Telephone	PB and CB	R02	15	3/3	Open Response – Computer Scored
R111Q01	CR111Q01S	PR111Q01S	Exchange	PB and CB	R02	5	1/3	Simple Multiple Choice – Computer Scored
R111Q02	DR111Q02BC	R111Q02B	Exchange	PB and CB	R02	6	2/3	Open Response – Human Coded
R111Q06	DR111Q06C	R111Q06B	Exchange	PB and CB	R02	8	3/3	Open Response – Human Coded
R219Q01	DR219Q01C	PR219Q01S	Employment	PB and CB	R01	1	1/2	Open Response – Human Coded
R219Q01	DR219Q01EC	R219Q01E	Employment	PB and CB	R01	2	1/2	Open Response – Human Coded
R219Q02	DR219Q02C	R219Q02	Employment	PB and CB	R01	3	2/2	Open Response – Human Coded
R220Q01	CR220Q01S	R220Q01	South Pole	PB and CB	R01	10	1/5	Open Response – Computer Scored
R220Q02	CR220Q02S	PR220Q02BS	South Pole	PB and CB	R01	11	2/5	Simple Multiple Choice – Computer Scored
R220Q04	CR220Q04S	PR220Q04S	South Pole	PB and CB	R01	12	3/5	Simple Multiple Choice – Computer Scored
R220Q05	CR220Q05S	PR220Q05S	South Pole	PB and CB	R01	13	4/5	Simple Multiple Choice – Computer Scored
R220Q06	CR220Q06S	PR220Q06S	South Pole	PB and CB	R01	14	5/5	Simple Multiple Choice – Computer Scored
R227Q01	CR227Q01S	PR227Q01S	Optician	PB and CB	R02	1	1/4	Simple Multiple Choice – Computer Scored
R227Q02	CR227Q02S	PR227Q02S	Optician	PB and CB	R02	2	2/4	Complex Multiple Choice – Computer Scored
R227Q03	DR227Q03C	R227Q03	Optician	PB and CB	R02	3	3/4	Open Response – Human Coded
R227Q06	DR227Q06C	R227Q06	Optician	PB and CB	R02	4	4/4	Open Response – Human Coded
R245Q01	CR245Q01S	R245Q01	Movie Reviews	PB and CB	R06A	10	1/2	Complex Multiple Choice – Computer Scored
R245Q02	CR245Q02S	R245Q02	Movie Reviews	PB and CB	R06A	11	2/2	Complex Multiple Choice – Computer Scored
R404Q03	CR404Q03S	PR404Q03S	Sleep	PB and CB	R05	4	1/4	Simple Multiple Choice – Computer Scored
R404Q06	CR404Q06S	PR404Q06S	Sleep	PB and CB	R05	5	2/4	Simple Multiple Choice – Computer Scored
R404Q07	CR404Q07S	PR404Q07S	Sleep	PB and CB	R05	6	3/4	Complex Multiple Choice – Computer Scored
R404Q10	DR404Q10AC	PR404Q10A	Sleep	PB and CB	R05	7	4/4	Open Response – Human Coded
R404Q10	DR404Q10BC	PR404Q10B	Sleep	PB and CB	R05	8	4/4	Open Response – Human Coded
R406Q01	DR406Q01C	PR406Q01	Kokeshi Dolls	PB and CB	R05	10	1/3	Open Response – Human Coded
R406Q02	DR406Q02C	PR406Q02	Kokeshi Dolls	PB and CB	R05	12	3/3	Open Response – Human Coded
R406Q05	DR406Q05C	PR406Q05	Kokeshi Dolls	PB and CB	R05	11	2/3	Open Response – Human Coded
R412Q01	CR412Q01S	PR412Q01S	World Languages	PB and CB	R03	9	1/4	Simple Multiple Choice – Computer Scored
R412Q05	CR412Q05S	PR412Q05S	World Languages	PB and CB	R03	10	2/4	Simple Multiple Choice – Computer Scored
R412Q06	CR412Q06S	PR412Q06S	World Languages	PB and CB	R03	12	4/4	Complex Multiple Choice – Computer Scored
R412Q08	DR412Q08C	PR412Q08	World Languages	PB and CB	R03	11	3/4	Open Response – Human Coded
R420Q02	DR420Q02C	PR420Q02	Children's Futures	PB and CB	R03	1	1/4	Open Response – Human Coded

Table A.3   PISA 2015 main survey trend reading item classification

Generic ID	CBA item ID in main survey analysis output	PBA item ID in main survey analysis output	Unit name	Mode [paper-based (PB); computer-based (CB)]	2015 field trial and main survey cluster	Sequence in cluster	Sequence in unit	Item format – CBA
R420Q06	DR420Q06C	PR420Q06	Children's Futures	PB and CB	R03	3	3/4	Open Response – Human Coded
R420Q09	DR420Q09C	PR420Q09	Children's Futures	PB and CB	R03	4	4/4	Open Response – Human Coded
R420Q10	DR420Q10C	PR420Q10	Children's Futures	PB and CB	R03	2	2/4	Open Response – Human Coded
R424Q02	CR424Q02S	PR424Q02S	Fair Trade	PB and CB	R05	1	1/3	Complex Multiple Choice – Computer Scored
R424Q03	CR424Q03S	PR424Q03S	Fair Trade	PB and CB	R05	2	2/3	Simple Multiple Choice – Computer Scored
R424Q07	CR424Q07S	PR424Q07S	Fair Trade	PB and CB	R05	3	3/3	Simple Multiple Choice – Computer Scored
R432Q01	DR432Q01C	PR432Q01	About a book	PB and CB	R04	9	1/3	Open Response – Human Coded
R432Q05	DR432Q05C	PR432Q05	About a book	PB and CB	R04	10	2/3	Open Response – Human Coded
R432Q06	CR432Q06S	PR432Q06S	About a book	PB and CB	R04	11	3/3	Complex Multiple Choice – Computer Scored
R435Q01	CR435Q01S	PR435Q01S	Dust Mites	PB and CB	R06B	9	2/4	Simple Multiple Choice – Computer Scored
R435Q02	CR435Q02S	R435Q02	Dust Mites	PB and CB	R06B	8	1/4	Open Response – Computer Scored
R435Q05	DR435Q05C	R435Q05	Dust Mites	PB and CB	R06B	10	3/4	Open Response – Human Coded
R435Q08	CR435Q08S	PR435Q08S	Dust Mites	PB and CB	R06B	11	4/4	Complex Multiple Choice – Computer Scored
R437Q01	CR437Q01S	PR437Q01S	Narcissus	PB and CB	R03	13	1/3	Simple Multiple Choice – Computer Scored
R437Q06	CR437Q06S	PR437Q06S	Narcissus	PB and CB	R03	15	3/3	Simple Multiple Choice – Computer Scored
R437Q07	DR437Q07C	PR437Q07	Narcissus	PB and CB	R03	14	2/3	Open Response – Human Coded
R442Q02	DR442Q02C	R442Q02	Galileo	PB and CB	R06A	5	1/5	Open Response – Human Coded
R442Q03	DR442Q03C	R442Q03	Galileo	PB and CB	R06A	6	2/5	Open Response – Human Coded
R442Q05	DR442Q05C	R442Q05	Galileo	PB and CB	R06A	7	3/5	Open Response – Human Coded
R442Q06	DR442Q06C	R442Q06	Galileo	PB and CB	R06A	8	4/5	Open Response – Human Coded
R442Q07	CR442Q07S	PR442Q07S	Galileo	PB and CB	R06A	9	5/5	Simple Multiple Choice – Computer Scored
R445Q01	DR445Q01C	R445Q01	Road	PB and CB	R06B	2	2/4	Open Response – Human Coded
R445Q03	CR445Q03S	PR445Q03S	Road	PB and CB	R06B	1	1/4	Simple Multiple Choice – Computer Scored
R445Q04	CR445Q04S	PR445Q04S	Road	PB and CB	R06B	3	3/4	Simple Multiple Choice – Computer Scored
R445Q06	CR445Q06S	PR445Q06S	Road	PB and CB	R06B	4	4/4	Simple Multiple Choice – Computer Scored
R446Q03	CR446Q03S	PR446Q03	Job Vacancy	PB and CB	R04	7	1/2	Complex Multiple Choice – Computer Scored
R446Q06	DR446Q06C	PR446Q06	Job Vacancy	PB and CB	R04	8	2/2	Open Response – Human Coded
R453Q01	CR453Q01S	PR453Q01S	Summer Job	PB and CB	R03	5	1/4	Simple Multiple Choice – Computer Scored
R453Q04	DR453Q04C	PR453Q04	Summer Job	PB and CB	R03	6	2/4	Open Response – Human Coded
R453Q05	CR453Q05S	PR453Q05S	Summer Job	PB and CB	R03	7	3/4	Complex Multiple Choice – Computer Scored
R453Q06	DR453Q06C	PR453Q06	Summer Job	PB and CB	R03	8	4/4	Open Response – Human Coded
R455Q02	DR455Q02C	PR455Q02	Chocolate and Health	PB and CB	R05, U3	13	1/4	Open Response – Human Coded
R455Q03	DR455Q03C	PR455Q03	Chocolate and Health	PB and CB	R05, U3	14	2/4	Open Response – Human Coded
R455Q04	CR455Q04S	PR455Q04S	Chocolate and Health	PB and CB	R05, U3	15	3/4	Simple Multiple Choice – Computer Scored
R455Q05	CR455Q05S	PR455Q05S	Chocolate and Health	PB and CB	R05, U3	16	4/4	Complex Multiple Choice – Computer Scored
R456Q01	CR456Q01S	PR456Q01S	Biscuits	PB and CB	R04, U3	1	1/3	Simple Multiple Choice – Computer Scored
R456Q02	DR456Q02C	PR456Q02	Biscuits	PB and CB	R04, U3	2	2/3	Open Response – Human Coded
R456Q06	DR456Q06C	PR456Q06	Biscuits	PB and CB	R04, U3	3	3/3	Open Response – Human Coded
R460Q01	DR460Q01C	R460Q01	Gulf of Mexico	PB and CB	R04	12	1/3	Open Response – Human Coded
R460Q05	CR460Q05S	PR460Q05S	Gulf of Mexico	PB and CB	R04	13	2/3	Simple Multiple Choice – Computer Scored
R460Q06	CR460Q06S	PR460Q06S	Gulf of Mexico	PB and CB	R04	14	3/3	Simple Multiple Choice – Computer Scored
R462Q02	DR462Q02C	R462Q02	Parcel Post	PB and CB	R06B	5	1/3	Open Response – Human Coded
R462Q04	CR462Q04S	PR462Q04S	Parcel Post	PB and CB	R06B	7	3/3	Simple Multiple Choice – Computer Scored
R462Q05	DR462Q05C	R462Q05	Parcel Post	PB and CB	R06B	6	2/3	Open Response – Human Coded
R465Q01	DR465Q01C	R465Q01	How to survive at work	PB and CB	R06B	12	1/4	Open Response – Human Coded
R465Q02	DR465Q02C	R465Q02	How to survive at work	PB and CB	R06B	13	2/4	Open Response – Human Coded
R465Q05	DR465Q05C	R465Q05	How to survive at work	PB and CB	R06B	15	4/4	Open Response – Human Coded
R465Q06	DR465Q06C	R465Q06	How to survive at work	PB and CB	R06B	14	3/4	Open Response – Human Coded
R466Q02	DR466Q02C	PR466Q02	Work Right	PB and CB	R04	4	1/3	Open Response – Human Coded
R466Q03	CR466Q03S	PR466Q03S	Work Right	PB and CB	R04	5	2/3	Complex Multiple Choice – Computer Scored
R466Q06	CR466Q06S	PR466Q06	Work Right	PB and CB	R04	6	3/3	Open Response – Computer Scored

[Part 3/8]

Table A.3   PISA 2015 main survey trend reading item classification

Generic ID	Item format - PBA	Situation	Text format	Aspect	Unit origin	Language of submission	Source
R055Q01	Simple Multiple Choice – Data Entered	Public	Continuous	Integrate and interpret	CITO	English	2009
R055Q02	Open Response – Human Coded	Public	Continuous	Reflect and evaluate	CITO	English	2009
R055Q03	Open Response – Human Coded	Public	Continuous	Integrate and interpret	CITO	English	2009
R055Q05	Open Response – Human Coded	Public	Continuous	Integrate and interpret	CITO	English	2009
R067Q01	Simple Multiple Choice – Data Entered	Personal	Continuous	Integrate and interpret	Greece	Greek	2009
R067Q04	Open Response – Human Coded	Personal	Continuous	Reflect and evaluate	Greece	Greek	2009
R067Q05	Open Response – Human Coded	Personal	Continuous	Reflect and evaluate	Greece	Greek	2009
R083Q01	Simple Multiple Choice – Data Entered	Educational	Mixed	Integrate and interpret	ACER	English	2009
R083Q02	Open Response – Human Coded	Educational	Non-continuous	Access and retrieve	ACER	English	2009
R083Q03	Open Response – Human Coded	Educational	Non-continuous	Access and retrieve	ACER	English	2009
R083Q04	Simple Multiple Choice – Data Entered	Educational	Non-continuous	Integrate and interpret	ACER	English	2009
R101Q01	Simple Multiple Choice – Data Entered	Public	Continuous	Integrate and interpret	Sweden	Swedish	2009
R101Q02	Simple Multiple Choice – Data Entered	Public	Continuous	Integrate and interpret	Sweden	Swedish	2009
R101Q03	Simple Multiple Choice – Data Entered	Public	Continuous	Reflect and evaluate	Sweden	Swedish	2009
R101Q04	Simple Multiple Choice – Data Entered	Public	Continuous	Integrate and interpret	Sweden	Swedish	2009
R101Q05	Simple Multiple Choice – Data Entered	Public	Continuous	Integrate and interpret	Sweden	Swedish	2009
R102Q04	Open Response – Human Coded	Personal	Continuous	Integrate and interpret	CITO	English	2009
R102Q05	Open Response – Human Coded	Personal	Non-continuous	Integrate and interpret	CITO	English	2009
R102Q07	Simple Multiple Choice – Data Entered	Personal	Mixed	Integrate and interpret	CITO	English	2009
R104Q01	Open Response – Human Coded	Public	Non-continuous	Access and retrieve	New Zealand	English	2009
R104Q02	Open Response – Human Coded	Public	Non-continuous	Access and retrieve	New Zealand	English	2009
R104Q05	Open Response – Human Coded	Public	Non-continuous	Access and retrieve	New Zealand	English	2009
R111Q01	Simple Multiple Choice – Data Entered	Educational	Continuous	Integrate and interpret	Finland	Finnish	2009
R111Q02	Open Response – Human Coded	Educational	Continuous	Reflect and evaluate	Finland	Finnish	2009
R111Q06	Open Response – Human Coded	Educational	Continuous	Reflect and evaluate	Finland	Finnish	2009
R219Q01	Open Response – Human Coded	Occupational	Non-continuous	Access and retrieve	IALS	IALS	2009
R219Q01	Open Response – Human Coded	Occupational	Non-continuous	Integrate and interpret	IALS	IALS	2009
R219Q02	Open Response – Human Coded	Occupational	Non-continuous	Reflect and evaluate	IALS	IALS	2009
R220Q01	Open Response – Human Coded	Educational	Mixed	Access and retrieve	France	French	2009-2012
R220Q02	Simple Multiple Choice – Data Entered	Educational	Mixed	Integrate and interpret	France	French	2009-2012
R220Q04	Simple Multiple Choice – Data Entered	Educational	Continuous	Integrate and interpret	France	French	2009-2012
R220Q05	Simple Multiple Choice – Data Entered	Educational	Continuous	Integrate and interpret	France	French	2009
R220Q06	Simple Multiple Choice – Data Entered	Educational	Continuous	Integrate and interpret	France	French	2009
R227Q01	Simple Multiple Choice – Data Entered	Occupational	Mixed	Integrate and interpret	Switzerland	German	2009
R227Q02	Complex Multiple Choice – Data Entered	Occupational	Continuous	Access and retrieve	Switzerland	German	2009
R227Q03	Open Response – Human Coded	Occupational	Continuous	Reflect and evaluate	Switzerland	German	2009
R227Q06	Open Response – Human Coded	Occupational	Non-continuous	Access and retrieve	Switzerland	German	2009
R245Q01	Open Response – Human Coded	Personal	Multiple	Access and retrieve	IALS	English	2009
R245Q02	Open Response – Human Coded	Personal	Multiple	Integrate and interpret	IALS	English	2009
R404Q03	Simple Multiple Choice – Data Entered	Public	Continuous	Integrate and interpret	ILS	Norwegian	2012
R404Q06	Simple Multiple Choice – Data Entered	Public	Non-continuous	Integrate and interpret	ILS	Norwegian	2012
R404Q07	Complex Multiple Choice – Data Entered	Public	Non-continuous	Integrate and interpret	ILS	Norwegian	2012
R404Q10	Open Response – Human Coded	Public	Non-continuous	Reflect and evaluate	ILS	Norwegian	2012
R404Q10	Open Response – Human Coded	Public	Non-continuous	Reflect and evaluate	ILS	Norwegian	2012
R406Q01	Open Response – Human Coded	Personal	Continuous	Integrate and interpret	NIER	Japanese	2012
R406Q02	Open Response – Human Coded	Personal	Continuous	Integrate and interpret	NIER	Japanese	2012
R406Q05	Open Response – Human Coded	Personal	Continuous	Integrate and interpret	NIER	Japanese	2012
R412Q01	Simple Multiple Choice – Data Entered	Educational	Non-continuous	Access and retrieve	ACER	English	2012
R412Q05	Simple Multiple Choice – Data Entered	Educational	Continuous	Integrate and interpret	ACER	English	2012
R412Q06	Complex Multiple Choice – Data Entered	Educational	Continuous	Integrate and interpret	ACER	English	2012
R412Q08	Open Response – Human Coded	Educational	Mixed	Integrate and interpret	ACER	English	2012
R420Q02	Open Response – Human Coded	Educational	Non-continuous	Access and retrieve	NIER	Japanese	2012

PISA 2015 TECHNICAL REPORT

Table A.3 **PISA 2015 main survey trend reading item classification**

Generic ID	Item format - PBA	Situation	Text format	Aspect	Unit origin	Language of submission	Source
R420Q06	Open Response – Human Coded	Educational	Non-continuous	Reflect and evaluate	NIER	Japanese	2012
R420Q09	Open Response – Human Coded	Educational	Non-continuous	Access and retrieve	NIER	Japanese	2012
R420Q10	Open Response – Human Coded	Educational	Non-continuous	Integrate and interpret	NIER	Japanese	2012
R424Q02	Complex Multiple Choice – Data Entered	Educational	Non-continuous	Integrate and interpret	aSPe	French	2012
R424Q03	Simple Multiple Choice – Data Entered	Educational	Non-continuous	Reflect and evaluate	aSPe	French	2012
R424Q07	Simple Multiple Choice – Data Entered	Educational	Continuous	Reflect and evaluate	aSPe	French	2012
R432Q01	Open Response – Human Coded	Personal	Continuous	Integrate and interpret	DIPF	German	2012
R432Q05	Open Response – Human Coded	Personal	Multiple	Reflect and evaluate	DIPF	German	2012
R432Q06	Complex Multiple Choice – Data Entered	Personal	Continuous	Integrate and interpret	DIPF	German	2012
R435Q01	Simple Multiple Choice – Data Entered	Educational	Continuous	Integrate and interpret	Canada	English	2009
R435Q02	Open Response – Human Coded	Educational	Continuous	Access and retrieve	Canada	English	2009
R435Q05	Open Response – Human Coded	Educational	Continuous	Reflect and evaluate	Canada	English	2009
R435Q08	Complex Multiple Choice – Data Entered	Educational	Continuous	Reflect and evaluate	Canada	English	2009
R437Q01	Simple Multiple Choice – Data Entered	Personal	Continuous	Integrate and interpret	Sweden	Portuguese	2012
R437Q06	Simple Multiple Choice – Data Entered	Personal	Continuous	Integrate and interpret	Sweden	Portuguese	2012
R437Q07	Open Response – Human Coded	Personal	Continuous	Integrate and interpret	Sweden	Portuguese	2012
R442Q02	Open Response – Human Coded	Personal	Continuous	Access and retrieve	Colombia	Spanish	2009
R442Q03	Open Response – Human Coded	Personal	Continuous	Integrate and interpret	Colombia	Spanish	2009
R442Q05	Open Response – Human Coded	Personal	Continuous	Reflect and evaluate	Colombia	Spanish	2009
R442Q06	Open Response – Human Coded	Personal	Continuous	Reflect and evaluate	Colombia	Spanish	2009
R442Q07	Simple Multiple Choice – Data Entered	Personal	Continuous	Integrate and interpret	Colombia	Spanish	2009
R445Q01	Open Response – Human Coded	Public	Continuous	Integrate and interpret	Spain	Spanish	2009
R445Q03	Simple Multiple Choice – Data Entered	Public	Continuous	Integrate and interpret	Spain	Spanish	2009
R445Q04	Simple Multiple Choice – Data Entered	Public	Continuous	Integrate and interpret	Spain	Spanish	2009
R445Q06	Simple Multiple Choice – Data Entered	Public	Continuous	Integrate and interpret	Spain	Spanish	2009
R446Q03	Open Response – Human Coded	Occupational	Non-continuous	Access and retrieve	ACER	English	2012
R446Q06	Open Response – Human Coded	Occupational	Non-continuous	Reflect and evaluate	ACER	English	2012
R453Q01	Simple Multiple Choice – Data Entered	Occupational	Continuous	Integrate and interpret	Finland	Finnish	2012
R453Q04	Open Response – Human Coded	Occupational	Continuous	Reflect and evaluate	Finland	Finnish	2012
R453Q05	Complex Multiple Choice – Data Entered	Occupational	Continuous	Access and retrieve	Finland	Finnish	2012
R453Q06	Open Response – Human Coded	Occupational	Continuous	Reflect and evaluate	Finland	Finnish	2012
R455Q02	Open Response – Human Coded	Personal	Continuous	Reflect and evaluate	New Zealand	English	2012
R455Q03	Open Response – Human Coded	Personal	Continuous	Access and retrieve	New Zealand	English	2012
R455Q04	Simple Multiple Choice – Data Entered	Personal	Continuous	Integrate and interpret	New Zealand	English	2012
R455Q05	Complex Multiple Choice – Data Entered	Personal	Continuous	Integrate and interpret	New Zealand	English	2012
R456Q01	Simple Multiple Choice – Data Entered	Personal	Continuous	Access and retrieve	Serbia	English	2012
R456Q02	Open Response – Human Coded	Personal	Continuous	Integrate and interpret	Serbia	English	2012
R456Q06	Open Response – Human Coded	Personal	Continuous	Integrate and interpret	Serbia	English	2012
R460Q01	Open Response – Human Coded	Educational	Continuous	Access and retrieve	Mexico	Spanish	2009
R460Q05	Simple Multiple Choice – Data Entered	Educational	Continuous	Access and retrieve	Mexico	Spanish	2009
R460Q06	Simple Multiple Choice – Data Entered	Educational	Continuous	Integrate and interpret	Mexico	Spanish	2009
R462Q02	Open Response – Human Coded	Public	Non-continuous	Access and retrieve	Greece	Greek	2009
R462Q04	Simple Multiple Choice – Data Entered	Public	Non-continuous	Access and retrieve	Greece	Greek	2009
R462Q05	Open Response – Human Coded	Public	Non-continuous	Integrate and interpret	Greece	Greek	2009
R465Q01	Open Response – Human Coded	Occupational	Non-continuous	Access and retrieve	ACER	English	2009
R465Q02	Open Response – Human Coded	Occupational	Non-continuous	Integrate and interpret	ACER	English	2009
R465Q05	Open Response – Human Coded	Occupational	Non-continuous	Reflect and evaluate	ACER	English	2009
R465Q06	Open Response – Human Coded	Occupational	Non-continuous	Reflect and evaluate	ACER	English	2009
R466Q02	Open Response – Human Coded	Occupational	Continuous	Access and retrieve	aSPe	French	2012
R466Q03	Complex Multiple Choice – Data Entered	Occupational	Mixed	Integrate and interpret	aSPe	French	2012
R466Q06	Open Response – Human Coded	Occupational	Continuous	Access and retrieve	aSPe	French	2012

[Part 5/8]

Table A.3 PISA 2015 main survey trend reading item classification

Generic ID	CBA international % correct	CBA international % correct S.E.	CBA item parameters (RP = 0.50)				CBA thresholds (RP = 0.62)		Level
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
R055Q01	76.02	0.22	1.000	-0.629			450		Level 2
R055Q02	44.05	0.25	1.011	0.462			593		Level 4
R055Q03	50.99	0.23	1.237	0.453			585		Level 4
R055Q05	65.23	0.25	1.417	-0.135			504		Level 3
R067Q01	84.79	0.18	1.000	-1.223			372		Level 1a
R067Q04	55.11	0.22	0.540	0.054	0.154	-0.154	502	635	Level 5
R067Q05	66.00	0.23	0.592	-0.187	-0.964	0.964	470	533	Level 3
R083Q01	59.15	0.30	1.150	0.166			549		Level 3
R083Q02	77.80	0.25	1.000	-0.545			461		Level 2
R083Q03	73.33	0.26	1.000	-0.341			488		Level 3
R083Q04	65.37	0.28	0.713	-0.179			524		Level 3
R101Q01	52.18	0.29	0.823	0.452			600		Level 4
R101Q02	83.96	0.22	1.000	-0.799			427		Level 2
R101Q03	64.16	0.29	1.131	0.084			539		Level 3
R101Q04	77.16	0.25	1.094	-0.528			460		Level 2
R101Q05	43.47	0.29	0.632	0.767			655		Level 5
R102Q04	22.13	0.21	1.149	1.214			687		Level 5
R102Q05	31.63	0.24	1.052	0.862			644		Level 5
R102Q07	80.43	0.21	1.138	-0.785			424		Level 2
R104Q01	53.74	0.26	1.182	0.219			555		Level 4
R104Q02	38.24	0.26	0.535	1.141			716		Level 6
R104Q05	11.26	0.12	0.941	2.068	0.628	-0.628	767	896	Level 6
R111Q01	63.43	0.25	1.024	-0.112			517		Level 3
R111Q02	33.42	0.19	0.791	0.876	0.427	-0.427	610	729	Level 6
R111Q06	37.83	0.22	0.724	0.663	-0.564	0.564	582	642	Level 5
R219Q01	66.06	0.23	1.518	-0.002			519		Level 3
R219Q01	59.30	0.24	1.341	-0.009			522		Level 3
R219Q02	71.89	0.23	1.175	-0.488			463		Level 2
R220Q01	18.17	0.20	1.237	1.273			693		Level 5
R220Q02	49.46	0.26	1.000	0.311			573		Level 4
R220Q04	58.17	0.26	0.857	0.042			544		Level 3
R220Q05	78.55	0.21	1.000	-0.741			435		Level 2
R220Q06	59.42	0.26	0.774	-0.076			534		Level 3
R227Q01	54.82	0.25	0.599	0.080			568		Level 4
R227Q02	44.69	0.18	0.779	0.539	0.677	-0.677	565	712	Level 6
R227Q03	52.12	0.26	1.151	0.245			560		Level 4
R227Q06	66.08	0.25	1.355	-0.175			499		Level 3
R245Q01	60.82	0.29	0.979	0.004			534		Level 3
R245Q02	64.03	0.28	1.085	-0.006			529		Level 3
R404Q03	70.55	0.23	1.000	-0.455			473		Level 2
R404Q06	43.56	0.26	0.701	0.491			613		Level 4
R404Q07	28.70	0.23	0.899	1.156			689		Level 5
R404Q10	43.69	0.26	1.561	0.548			591		Level 4
R404Q10	36.72	0.25	1.454	0.720			615		Level 4
R406Q01	60.25	0.26	1.033	-0.022			528		Level 3
R406Q02	31.33	0.23	0.762	1.086			687		Level 5
R406Q05	66.75	0.24	1.000	-0.321			490		Level 3
R412Q01	81.54	0.20	1.000	-0.955			407		Level 1a
R412Q05	53.84	0.26	0.719	0.119			563		Level 4
R412Q06	38.22	0.27	0.147	2.656			1102		Level 6
R412Q08	34.96	0.25	1.255	0.701			617		Level 4
R420Q02	73.12	0.23	1.137	-0.489			464		Level 2

[Part 6/8]

Table A.3 PISA 2015 main survey trend reading item classification

Generic ID	CBA international % correct	CBA international % correct S.E.	CBA item parameters (RP = 0.50)				CBA thresholds (RP = 0.62)		Level
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
R420Q06	40.52	0.25	0.725	0.660			634		Level 5
R420Q09	71.88	0.24	1.000	-0.428			476		Level 2
R420Q10	59.83	0.24	1.000	0.076	-1.373	1.373	505	528	Level 3
R424Q02	36.36	0.25	0.533	0.837			676		Level 5
R424Q03	50.57	0.25	0.572	0.266			596		Level 4
R424Q07	73.80	0.23	1.000	-0.525			463		Level 2
R432Q01	80.37	0.20	1.481	-0.648			435		Level 2
R432Q05	65.79	0.24	1.399	-0.122			506		Level 3
R432Q06	8.12	0.14	1.000	2.104			809		Level 6
R435Q01	65.55	0.50	0.825	-0.646			456		Level 2
R435Q02	82.93	0.38	1.000	-1.430			344		Level 1a
R435Q05	60.39	0.52	1.000	-0.440			474		Level 2
R435Q08	51.90	0.50	1.169	-0.112			512		Level 3
R437Q01	43.90	0.27	0.563	0.585			639		Level 5
R437Q06	53.30	0.26	0.685	0.220			579		Level 4
R437Q07	16.90	0.20	0.774	1.775			777		Level 6
R442Q02	72.09	0.27	0.973	-0.297			494		Level 3
R442Q03	70.37	0.27	1.791	-0.057			508		Level 3
R442Q05	32.46	0.28	1.669	0.843			628		Level 5
R442Q06	22.41	0.25	1.546	1.227			681		Level 5
R442Q07	39.11	0.29	1.454	0.757			620		Level 4
R445Q01	68.35	0.47	0.738	-0.565			471		Level 2
R445Q03	79.85	0.43	1.074	-1.279			362		Level 1a
R445Q04	82.35	0.38	0.955	-1.291			364		Level 1a
R445Q06	58.19	0.51	0.843	-0.459			479		Level 2
R446Q03	88.45	0.16	1.000	-1.292			362		Level 1a
R446Q06	68.14	0.24	1.123	-0.250			495		Level 3
R453Q01	77.33	0.22	1.172	-0.553			454		Level 2
R453Q04	61.20	0.25	0.994	-0.059			525		Level 3
R453Q05	51.67	0.25	1.172	0.229			557		Level 4
R453Q06	66.64	0.24	1.438	-0.202			494		Level 3
R455Q02	31.95	0.24	0.762	1.039			681		Level 5
R455Q03	76.57	0.23	0.917	-0.665			448		Level 2
R455Q04	57.98	0.26	0.844	0.028			543		Level 3
R455Q05	21.65	0.21	1.140	1.277			696		Level 5
R456Q01	94.41	0.12	1.000	-1.912			281		Level 1b
R456Q02	72.62	0.23	1.000	-0.496			467		Level 2
R456Q06	76.48	0.23	1.000	-0.655			446		Level 2
R460Q01	63.88	0.25	1.145	-0.115			513		Level 3
R460Q05	77.09	0.22	1.000	-0.635			449		Level 2
R460Q06	60.08	0.26	0.826	0.027			544		Level 3
R462Q02	37.35	0.49	1.016	0.310			573		Level 4
R462Q04	64.69	0.48	0.721	-0.884			431		Level 2
R462Q05	36.72	0.50	1.078	0.210			557		Level 4
R465Q01	87.60	0.34	1.139	-1.616			315		Level 1b
R465Q02	48.36	0.54	1.539	0.050			526		Level 3
R465Q05	43.77	0.54	1.086	0.203			556		Level 4
R465Q06	57.84	0.54	1.055	-0.157			510		Level 3
R466Q02	41.40	0.25	1.293	0.536			594		Level 4
R466Q03	13.00	0.17	1.000	1.621			746		Level 6
R466Q06	78.34	0.21	1.466	-0.429			464		Level 2

Table A.3 PISA 2015 main survey trend reading item classification

Generic ID	PBA international % correct	PBA international % correct S.E.	PBA item parameters (RP = 0.50)				PBA thresholds (RP = 0.62)		Level
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
R055Q01	61.37	0.54	1.000	-0.752			433		Level 2
R055Q02	35.11	0.52	1.011	0.462			593		Level 4
R055Q03	36.65	0.52	1.237	0.161			546		Level 3
R055Q05	48.82	0.58	1.417	-0.280			484		Level 3
R067Q01	75.85	0.47	1.000	-1.223			372		Level 1a
R067Q04	37.55	0.42	0.540	0.054	0.154	-0.154	502	635	Level 5
R067Q05	39.43	0.43	0.592	-0.187	-0.964	0.964	470	533	Level 3
R083Q01	40.52	0.89	1.150	0.166			549		Level 3
R083Q02	69.01	1.08	1.000	-0.697			441		Level 2
R083Q03	62.64	0.98	1.000	-0.575			457		Level 2
R083Q04	62.17	1.04	0.713	-0.179			524		Level 3
R101Q01	30.01	1.02	0.823	0.452			600		Level 4
R101Q02	75.06	0.99	1.000	-0.799			427		Level 2
R101Q03	44.75	1.12	1.131	0.084			539		Level 3
R101Q04	69.17	1.04	1.094	-0.528			460		Level 2
R101Q05	34.04	1.04	0.632	0.644			639		Level 5
R102Q04	11.57	0.31	1.149	1.074			669		Level 5
R102Q05	20.31	0.42	1.052	0.710			624		Level 4
R102Q07	62.59	0.54	1.138	-0.785			424		Level 2
R104Q01	56.01	0.60	1.182	-0.565			452		Level 2
R104Q02	23.33	0.48	0.535	1.141			716		Level 6
R104Q05	12.42	0.29	0.941	1.516	0.709	-0.709	694	832	Level 6
R111Q01	40.87	0.55	1.024	-0.112			517		Level 3
R111Q02	23.20	0.39	0.791	0.876	0.427	-0.427	610	729	Level 6
R111Q06	20.19	0.40	0.724	0.663	-0.564	0.564	582	642	Level 5
R219Q01	30.47	0.47	1.518	-0.002			519		Level 3
R219Q01	25.19	0.44	1.341	0.418			578		Level 4
R219Q02	51.10	0.50	1.175	-0.488			463		Level 2
R220Q01	16.15	0.39	1.237	0.752			624		Level 4
R220Q02	43.14	0.55	1.000	0.050			539		Level 3
R220Q04	42.32	0.59	0.857	0.042			544		Level 3
R220Q05	60.27	0.57	1.000	-0.741			435		Level 2
R220Q06	49.67	0.58	0.774	-0.262			509		Level 3
R227Q01	33.39	0.48	0.599	0.434			615		Level 4
R227Q02	30.91	0.36	0.779	0.379	0.768	-0.768	544	701	Level 6
R227Q03	36.02	0.50	1.151	0.245			560		Level 4
R227Q06	45.69	0.54	1.355	-0.175			499		Level 3
R245Q01	53.37	1.06	0.979	-0.122			517		Level 3
R245Q02	55.31	1.03	1.085	-0.151			510		Level 3
R404Q03	59.66	0.56	1.000	-0.455			473		Level 2
R404Q06	34.63	0.51	0.701	0.491			613		Level 4
R404Q07	18.79	0.41	0.899	1.093			681		Level 5
R404Q10	23.43	0.45	1.561	0.548			591		Level 4
R404Q10	23.70	0.45	1.454	0.720			615		Level 4
R406Q01	50.32	0.53	1.033	-0.198			505		Level 3
R406Q02	27.23	0.46	0.762	0.946			669		Level 5
R406Q05	55.98	0.51	1.000	-0.418			477		Level 2
R412Q01	74.80	0.45	1.000	-0.955			407		Level 1a
R412Q05	41.99	0.55	0.719	0.119			563		Level 4
R412Q06	35.77	0.67	0.147	2.656			1102		Level 6
R412Q08	21.86	0.42	1.255	0.701			617		Level 4
R420Q02	58.47	0.53	1.137	-0.658			441		Level 2

[Part 8/8]

Table A.3 PISA 2015 main survey trend reading item classification

| Generic ID | PBA international % correct | PBA international % correct S.E. | PBA item parameters (RP = 0.50) | | | | PBA thresholds (RP = 0.62) | | Level |
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
R420Q06	28.39	0.46	0.725	0.660			634		Level 5
R420Q09	61.86	0.51	1.000	-0.590			455		Level 2
R420Q10	44.62	0.53	1.000	-0.098	-1.125	1.125	482	508	Level 3
R424Q02	31.48	0.48	0.533	0.837			676		Level 5
R424Q03	50.89	0.52	0.572	-0.284			523		Level 3
R424Q07	58.49	0.56	1.000	-0.525			463		Level 2
R432Q01	67.08	0.49	1.481	-0.648			435		Level 2
R432Q05	44.68	0.51	1.399	-0.122			506		Level 3
R432Q06	6.70	0.27	1.000	1.750			763		Level 6
R435Q01	60.54	0.55	0.825	-0.646			456		Level 2
R435Q02	84.24	0.45	1.000	-1.574			325		Level 1b
R435Q05	58.50	0.61	1.000	-0.440			474		Level 2
R435Q08	45.27	0.62	1.169	-0.112			512		Level 3
R437Q01	41.27	0.53	0.563	0.342			607		Level 4
R437Q06	40.96	0.52	0.685	0.220			579		Level 4
R437Q07	19.05	0.42	0.774	1.775			777		Level 6
R442Q02	67.61	0.99	0.973	-0.297			494		Level 3
R442Q03	52.31	1.10	1.791	-0.057			508		Level 3
R442Q05	21.46	0.85	1.669	0.843			628		Level 5
R442Q06	21.04	0.88	1.546	1.073			660		Level 5
R442Q07	20.49	0.82	1.454	0.757			620		Level 4
R445Q01	57.56	0.58	0.738	-0.565			471		Level 2
R445Q03	75.65	0.53	1.074	-1.279			362		Level 1a
R445Q04	75.64	0.50	0.955	-1.291			364		Level 1a
R445Q06	54.62	0.58	0.843	-0.459			479		Level 2
R446Q03	77.51	0.45	1.000	-1.292			362		Level 1a
R446Q06	48.46	0.51	1.123	-0.412			474		Level 2
R453Q01	57.45	0.53	1.172	-0.553			454		Level 2
R453Q04	44.99	0.55	0.994	0.008			534		Level 3
R453Q05	34.49	0.50	1.172	0.081			538		Level 3
R453Q06	40.60	0.52	1.438	-0.118			505		Level 3
R455Q02	19.91	0.41	0.762	1.039			681		Level 5
R455Q03	66.79	0.52	0.917	-0.665			448		Level 2
R455Q04	42.15	0.53	0.844	-0.084			528		Level 3
R455Q05	11.50	0.31	1.140	1.276			696		Level 5
R456Q01	90.38	0.31	1.000	-1.912			281		Level 1b
R456Q02	67.36	0.48	1.000	-0.752			434		Level 2
R456Q06	63.77	0.50	1.000	-0.790			428		Level 2
R460Q01	55.21	0.55	1.145	-0.115			513		Level 3
R460Q05	66.84	0.51	1.000	-0.757			433		Level 2
R460Q06	45.67	0.57	0.826	0.027			544		Level 3
R462Q02	37.19	0.59	1.016	0.310			573		Level 4
R462Q04	64.05	0.57	0.721	-0.884			431		Level 2
R462Q05	38.88	0.59	1.078	0.210			557		Level 4
R465Q01	80.73	0.48	1.139	-1.616			315		Level 1b
R465Q02	35.90	0.63	1.539	0.050			526		Level 3
R465Q05	45.50	0.62	1.086	0.203			556		Level 4
R465Q06	41.99	0.58	1.055	-0.157			510		Level 3
R466Q02	31.50	0.51	1.293	0.536			594		Level 4
R466Q03	11.71	0.31	1.000	1.621			746		Level 6
R466Q06	56.00	0.54	1.466	-0.429			464		Level 2

[Part 1/8]

Table A.4 PISA 2015 main survey trend math item classification

Generic ID	CBA item ID in main survey analysis output	PBA item ID in main survey analysis output	Unit name	Mode [paper-based (PB); computer-based (CB)]	2015 field trial and main survey cluster	Sequence in cluster	Sequence in unit	Item format – CBA
M033Q01	CM033Q01S	PM033Q01S	A View Room	PB and CB	M1	1	1/1	Simple Multiple Choice – Computer Scored
M474Q01	CM474Q01S	PM474Q01	Running Time	PB and CB	M1	2	1/1	Simple Multiple Choice – Computer Scored
M155Q02	DM155Q02C	PM155Q02	Population Pyramids	PB and CB	M1	3	1/4	Open Response – Human Coded
M155Q01	CM155Q01S	PM155Q01	Population Pyramids	PB and CB	M1	4	2/4	Complex Multiple Choice – Computer Scored
M155Q03	DM155Q03C	PM155Q03	Population Pyramids	PB and CB	M1	5	3/4	Open Response – Human Coded
M155Q04	CM155Q04S	PM155Q04S	Population Pyramids	PB and CB	M1	6	4/4	Complex Multiple Choice – Computer Scored
M411Q01	CM411Q01S	PM411Q01	Diving	PB and CB	M1	7	1/2	Open Response – Computer Scored
M411Q02	CM411Q02S	PM411Q02S	Diving	PB and CB	M1	8	2/2	Simple Multiple Choice – Computer Scored
M803Q01	CM803Q01S	PM803Q01S	Labels	PB and CB	M1	9	1/1	Open Response – Computer Scored
M442Q02	CM442Q02S	PM442Q02	Braille	PB and CB	M1	10	1/1	Complex Multiple Choice – Computer Scored
M462Q01	DM462Q01C	PM462Q01	Third Side	PB and CB	M1	11	1/1	Open Response – Human Coded
M034Q01	CM034Q01S	PM034Q01S	Bricks	PB and CB	M1	12	1/1	Open Response – Computer Scored
M305Q01	CM305Q01S	PM305Q01S	Map	PB and CB	M2	1	1/1	Simple Multiple Choice – Computer Scored
M496Q01	CM496Q01S	PM496Q01S	Cash Withdrawal	PB and CB	M2	2	1/2	Complex Multiple Choice – Computer Scored
M496Q02	CM496Q02S	PM496Q02	Cash Withdrawal	PB and CB	M2	3	2/2	Open Response – Computer Scored
M423Q01	CM423Q01S	PM423Q01S	Tossing Coins	PB and CB	M2	4	1/1	Simple Multiple Choice – Computer Scored
M406Q01	DM406Q01C	PM406Q01	Running Tracks	PB and CB	M2	6	1/2	Open Response – Human Coded
M406Q02	DM406Q02C	PM406Q02	Running Tracks	PB and CB	M2	7	2/2	Open Response – Human Coded
M603Q01	CM603Q01S	PM603Q01S	Number Check	PB and CB	M2	8	1/1	Complex Multiple Choice – Computer Scored
M571Q01	CM571Q01S	PM571Q01S	Stop The Car	PB and CB	M2	9	1/1	Simple Multiple Choice – Computer Scored
M564Q01	CM564Q01S	PM564Q01S	Chair Lift	PB and CB	M2	10	1/2	Simple Multiple Choice – Computer Scored
M564Q02	CM564Q02S	PM564Q02S	Chair Lift	PB and CB	M2	11	2/2	Simple Multiple Choice – Computer Scored
M447Q01	CM447Q01S	PM447Q01S	Tile Arrangement	PB and CB	M3	1	1/1	Simple Multiple Choice – Computer Scored
M273Q01	CM273Q01S	PM273Q01S	Pipelines	PB and CB	M3	2	1/1	Complex Multiple Choice – Computer Scored
R111Q06	CM408Q01S	PM408Q01S	Lotteries	PB and CB	M3	3	1/1	Complex Multiple Choice – Computer Scored
M420Q01	CM420Q01S	PM420Q01S	Transport	PB and CB	M3	4	1/1	Complex Multiple Choice – Computer Scored
M446Q01	CM446Q01S	PM446Q01	Thermometer Cricket	PB and CB	M3	5	1/2	Open Response – Computer Scored
M446Q02	DM446Q02C	PM446Q02	Thermometer Cricket	PB and CB	M3	6	2/2	Open Response – Human Coded
M559Q01	CM559Q01S	PM559Q01S	Telephone Rates	PB and CB	M3	7	1/1	Simple Multiple Choice – Computer Scored
M828Q02	DM828Q02C	PM828Q02	Carbon Dioxide	PB and CB	M3	9	1/2	Open Response – Human Coded
M828Q03	CM828Q03S	PM828Q03	Carbon Dioxide	PB and CB	M3	10	2/2	Open Response – Computer Scored
M464Q01	CM464Q01S	PM464Q01S	Fence	PB and CB	M3	11	1/1	Open Response – Computer Scored
M800Q01	CM800Q01S	PM800Q01S	Computer Game	PB and CB	M3	12	1/1	Simple Multiple Choice – Computer Scored
M982Q01	CM982Q01S	PM982Q01	Employment Data	PB and CB	M4	1	1/4	Open Response – Computer Scored
M982Q02	CM982Q02S	PM982Q02	Employment Data	PB and CB	M4	2	2/4	Open Response – Computer Scored
M982Q03	CM982Q03S	PM982Q03S	Employment Data	PB and CB	M4	3	3/4	Complex Multiple Choice – Computer Scored
M982Q04	CM982Q04S	PM982Q04S	Employment Data	PB and CB	M4	4	4/4	Simple Multiple Choice – Computer Scored
M992Q01	CM992Q01S	PM992Q01	Spacers	PB and CB	M4	5	1/3	Open Response – Computer Scored
M992Q02	CM992Q02S	PM992Q02	Spacers	PB and CB	M4	6	2/3	Open Response – Computer Scored
M992Q03	DM992Q03C	PM992Q03	Spacers	PB and CB	M4	7	3/3	Open Response – Human Coded
M915Q01	CM915Q01S	PM915Q01S	Carbon Tax	PB and CB	M4, U4	8	1/2	Simple Multiple Choice – Computer Scored
M915Q02	CM915Q02S	PM915Q02	Carbon Tax	PB and CB	M4, U4	9	2/2	Open Response – Computer Scored

PISA 2015 TECHNICAL REPORT

Table A.4 PISA 2015 main survey trend math item classification

Generic ID	CBA item ID in main survey analysis output	PBA item ID in main survey analysis output	Unit name	Mode [paper-based (PB); computer-based (CB)]	2015 field trial and main survey cluster	Sequence in cluster	Sequence in unit	Item format – CBA
M906Q01	CM906Q01S	PM906Q01S	Crazy Ants	PB and CB	M4	10	1/2	Simple Multiple Choice – Computer Scored
M906Q02	DM906Q02C	PM906Q02	Crazy Ants	PB and CB	M4	11	2/2	Open Response – Human Coded
M00KQ02	DM00KQ02C	PM00KQ02	Wheelchair Basketball	PB and CB	M4	12	1/1	Open Response – Human Coded
M909Q01	CM909Q01S	PM909Q01	Speeding Fines	PB and CB	M5, U4	1	1/3	Open Response – Computer Scored
M909Q02	CM909Q02S	PM909Q02S	Speeding Fines	PB and CB	M5, U4	2	2/3	Simple Multiple Choice – Computer Scored
M909Q03	CM909Q03S	PM909Q03	Speeding Fines	PB and CB	M5, U4	3	3/3	Open Response – Computer Scored
M949Q01	CM949Q01S	PM949Q01S	Roof Truss Design	PB and CB	M5, U4	4	1/3	Complex Multiple Choice – Computer Scored
M949Q02	CM949Q02S	PM949Q02S	Roof Truss Design	PB and CB	M5, U4	5	2/3	Complex Multiple Choice – Computer Scored
M949Q03	DM949Q03C	PM949Q03	Roof Truss Design	PB and CB	M5, U4	6	3/3	Open Response – Human Coded
M00GQ01	CM00GQ01S	PM00GQ01	Advertising Column	PB and CB	M5	7	1/1	Open Response – Computer Scored
M955Q01	DM955Q01C	PM955Q01	Migration	PB and CB	M5	8	1/3	Open Response – Human Coded
M955Q02	DM955Q02C	PM955Q02	Migration	PB and CB	M5	9	2/3	Open Response – Human Coded
M955Q03	CM955Q03S	PM955Q03	Migration	PB and CB	M5	10	3/3	Open Response – Computer Scored
M998Q02	DM998Q02C	PM998Q02	Bike Rental	PB and CB	M5	11	1/2	Open Response – Human Coded
M998Q04	CM998Q04S	PM998Q04S	Bike Rental	PB and CB	M5	12	2/2	Complex Multiple Choice – Computer Scored
M905Q01	CM905Q01S	PM905Q01S	Tennis balls	PB and CB	M6A	1	1/2	Complex Multiple Choice – Computer Scored
M905Q02	DM905Q02C	PM905Q02	Tennis balls	PB and CB	M6A	2	2/2	Open Response – Human Coded
M919Q01	CM919Q01S	PM919Q01	Fan Merchandise	PB and CB	M6A	3	1/2	Open Response – Computer Scored
M919Q02	CM919Q02S	PM919Q02	Fan Merchandise	PB and CB	M6A	4	2/2	Open Response – Computer Scored
M954Q01	CM954Q01S	PM954Q01	Medicine doses	PB and CB	M6A	5	1/3	Open Response – Computer Scored
M954Q02	DM954Q02C	PM954Q02	Medicine doses	PB and CB	M6A	6	2/3	Open Response – Human Coded
M954Q04	CM954Q04S	PM954Q04	Medicine doses	PB and CB	M6A	7	3/3	Open Response – Computer Scored
M943Q01	CM943Q01S	PM943Q01S	Arches	PB and CB	M6A	8	1/2	Simple Multiple Choice – Computer Scored
M943Q02	CM943Q02S	PM943Q02	Arches	PB and CB	M6A	9	2/2	Open Response – Computer Scored
M953Q02	DM953Q02C	PM953Q02	Flu test	PB and CB	M6A	10	1/3	Open Response – Human Coded
M953Q03	CM953Q03S	PM953Q03	Flu test	PB and CB	M6A	11	2/3	Open Response – Computer Scored
M953Q04	DM953Q04C	PM953Q04	Flu test	PB and CB	M6A	12	3/3	Open Response – Human Coded
M948Q01	CM948Q01S	PM948Q01S	Part Time Work	PB and CB	M6B	1	1/3	Simple Multiple Choice – Computer Scored
M948Q02	CM948Q02S	PM948Q02	Part Time Work	PB and CB	M6B	2	2/3	Open Response – Computer Scored
M948Q03	CM948Q03S	PM948Q03	Part Time Work	PB and CB	M6B	3	3/3	Open Response – Computer Scored
M936Q01	CM936Q01S	PM936Q01	Seats in a Theatre	PB and CB	M6B	4	1/2	Open Response – Computer Scored
M936Q02	DM936Q02C	PM936Q02	Seats in a Theatre	PB and CB	M6B	5	2/2	Open Response – Human Coded
M961Q02	DM961Q02C	PM961Q02	Chocolate	PB and CB	M6B	6	1/3	Open Response – Human Coded
M961Q03	CM961Q03S	PM961Q03S	Chocolate	PB and CB	M6B	7	2/3	Simple Multiple Choice – Computer Scored
M961Q05	DM961Q05C	PM961Q05	Chocolate	PB and CB	M6B	8	3/3	Open Response – Human Coded
M939Q01	CM939Q01S	PM939Q01S	Racing	PB and CB	M6B	9	1/2	Simple Multiple Choice – Computer Scored
M939Q02	CM939Q02S	PM939Q02S	Racing	PB and CB	M6B	10	2/2	Simple Multiple Choice – Computer Scored
M967Q01	CM967Q01S	PM967Q01	Wooden Train Set	PB and CB	M6B	11	1/2	Open Response – Computer Scored
M967Q03	CM967Q03S	PM967Q03S	Wooden Train Set	PB and CB	M6B	12	2/2	Complex Multiple Choice – Computer Scored
M192Q01	NA	PM192Q01S	Containers	PB	M2	5	1/1	NA
M192Q01	NA	PM828Q01	Carbon Dioxide	PB	M3	8	—	NA

[Part 3/8]

Table A.4 PISA 2015 main survey trend math item classification

Generic ID	Item format – PBA	Content	Situation/context	Process	Unit origin	Language of submission	Version used as source for 2015
M033Q01	Simple Multiple Choice – Data Entered	Space and Shape	Personal	Interpreting, Applying and Evaluating Mathematical Outcomes	Consortium	Dutch	2012
M474Q01	Open Response – Human Coded	Quantity	Personal	Employing Mathematical Concepts, Facts and Procedures	Canada	English	2012
M155Q02	Open Response – Human Coded	Change and Relationships	Scientific	Interpreting, Applying and Evaluating Mathematical Outcomes	Consortium	Dutch	2012
M155Q01	Open Response – Human Coded	Change and Relationships	Scientific	Employing Mathematical Concepts, Facts and Procedures	Consortium	Dutch	2012
M155Q03	Open Response – Human Coded	Change and Relationships	Scientific	Employing Mathematical Concepts, Facts and Procedures	Consortium	Dutch	2012
M155Q04	Complex Multiple Choice – Data Entered	Change and Relationships	Scientific	Interpreting, Applying and Evaluating Mathematical Outcomes	Consortium	Dutch	2012
M411Q01	Open Response – Human Coded	Quantity	Societal	Employing Mathematical Concepts, Facts and Procedures	Consortium	English	2012
M411Q02	Simple Multiple Choice – Data Entered	Uncertainty and Data	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	Consortium	English	2012
M803Q01	Open Response – Data Entered	Uncertainty and Data	Occupational	Formulating Situations Mathematically	Canada	English	2012
M442Q02	Open Response – Human Coded	Quantity	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	Canada	English	2012
M462Q01	Open Response – Human Coded	Space and Shape	Scientific	Employing Mathematical Concepts, Facts and Procedures	Sweden	English	2012
M034Q01	Open Response – Data Entered	Space and Shape	Occupational	Formulating Situations Mathematically	Consortium	Dutch	2012
M305Q01	Simple Multiple Choice – Data Entered	Space and Shape	Societal	Employing Mathematical Concepts, Facts and Procedures			2012
M496Q01	Complex Multiple Choice – Data Entered	Quantity	Societal	Formulating Situations Mathematically	Consortium	English	2012
M496Q02	Open Response – Human Coded	Quantity	Societal	Employing Mathematical Concepts, Facts and Procedures	Consortium	English	2012
M423Q01	Simple Multiple Choice – Data Entered	Uncertainty and Data	Personal	Interpreting, Applying and Evaluating Mathematical Outcomes	Consortium	English	2012
M406Q01	Open Response – Human Coded	Space and Shape	Societal	Employing Mathematical Concepts, Facts and Procedures	Consortium	English	2012
M406Q02	Open Response – Human Coded	Space and Shape	Societal	Formulating Situations Mathematically	Consortium	English	2012
M603Q01	Complex Multiple Choice – Data Entered	Quantity	Scientific	Employing Mathematical Concepts, Facts and Procedures	Austria	German	2012
M571Q01	Simple Multiple Choice – Data Entered	Change and Relationships	Scientific	Interpreting, Applying and Evaluating Mathematical Outcomes	Germany	German	2012
M564Q01	Simple Multiple Choice – Data Entered	Quantity	Societal	Formulating Situations Mathematically	Italy	English	2012
M564Q02	Simple Multiple Choice – Data Entered	Uncertainty and Data	Societal	Formulating Situations Mathematically	Italy	English	2012
M447Q01	Simple Multiple Choice – Data Entered	Space and Shape	Societal	Employing Mathematical Concepts, Facts and Procedures	Consortium	English	2012
M273Q01	Complex Multiple Choice – Data Entered	Space and Shape	Occupational	Employing Mathematical Concepts, Facts and Procedures	Czech Republic	Czech	2012
R111Q06	Complex Multiple Choice – Data Entered	Uncertainty and Data	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	Consortium	English	2012
M420Q01	Complex Multiple Choice – Data Entered	Uncertainty and Data	Personal	Interpreting, Applying and Evaluating Mathematical Outcomes	Consortium	English	2012
M446Q01	Open Response – Human Coded	Change and Relationships	Scientific	Formulating Situations Mathematically	Consortium	English	2012
M446Q02	Open Response – Human Coded	Change and Relationships	Scientific	Formulating Situations Mathematically	Consortium	English	2012
M559Q01	Simple Multiple Choice – Data Entered	Quantity	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	Italy	English	2012
M828Q02	Open Response – Human Coded	Uncertainty and Data	Scientific	Employing Mathematical Concepts, Facts and Procedures	Netherlands	English	2012
M828Q03	Open Response – Human Coded	Quantity	Scientific	Employing Mathematical Concepts, Facts and Procedures	Netherlands	English	2012
M464Q01	Open Response – Data Entered	Space and Shape	Societal	Formulating Situations Mathematically	Sweden	English	2012
M800Q01	Simple Multiple Choice – Data Entered	Quantity	Personal	Employing Mathematical Concepts, Facts and Procedures	Canada	English	2012
M982Q01	Open Response – Human Coded	Uncertainty and Data	Societal	Employing Mathematical Concepts, Facts and Procedures	ACER	English	2012
M982Q02	Open Response – Human Coded	Uncertainty and Data	Societal	Employing Mathematical Concepts, Facts and Procedures	ACER	English	2012
M982Q03	Complex Multiple Choice – Data Entered	Uncertainty and Data	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	ACER	English	2012
M982Q04	Simple Multiple Choice – Data Entered	Uncertainty and Data	Societal	Formulating Situations Mathematically	ACER	English	2012
M992Q01	Open Response – Human Coded	Space and Shape	Occupational	Formulating Situations Mathematically	France	English	2012
M992Q02	Open Response – Human Coded	Space and Shape	Occupational	Formulating Situations Mathematically	France	English	2012
M992Q03	Open Response – Human Coded	Change and Relationships	Occupational	Formulating Situations Mathematically	France	English	2012
M915Q01	Simple Multiple Choice – Data Entered	Uncertainty and Data	Societal	Employing Mathematical Concepts, Facts and Procedures	ILS	English	2012
M915Q02	Open Response – Human Coded	Change and Relationships	Societal	Employing Mathematical Concepts, Facts and Procedures	ILS	English	2012

[Part 4/8]

Table A.4 PISA 2015 main survey trend math item classification

Generic ID	Item format – PBA	Content	Situation/context	Process	Unit origin	Language of submission	Version used as source for 2015
M906Q01	Simple Multiple Choice – Data Entered	Quantity	Scientific	Employing Mathematical Concepts, Facts and Procedures	ACER	English	2012
M906Q02	Open Response – Human Coded	Quantity	Scientific	Employing Mathematical Concepts, Facts and Procedures	ACER	English	2012
M00KQ02	Open Response – Human Coded	Space and Shape	Personal	Formulating Situations Mathematically	Canada	English	2012
M909Q01	Open Response – Human Coded	Quantity	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	aSPe	English	2012
M909Q02	Simple Multiple Choice – Data Entered	Quantity	Societal	Employing Mathematical Concepts, Facts and Procedures	aSPe	English	2012
M909Q03	Open Response – Human Coded	Change and Relationships	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	aSPe	English	2012
M949Q01	Complex Multiple Choice – Data Entered	Space and Shape	Occupational	Employing Mathematical Concepts, Facts and Procedures	ACER	English	2012
M949Q02	Complex Multiple Choice – Data Entered	Space and Shape	Occupational	Employing Mathematical Concepts, Facts and Procedures	ACER	English	2012
M949Q03	Open Response – Human Coded	Space and Shape	Occupational	Formulating Situations Mathematically	ACER	English	2012
M00GQ01	Open Response – Human Coded	Space and Shape	Personal	Formulating Situations Mathematically	Czech Republic	Czech	2012
M955Q01	Open Response – Human Coded	Uncertainty and Data	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	University of Melbourne	English	2012
M955Q02	Open Response – Human Coded	Uncertainty and Data	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	University of Melbourne	English	2012
M955Q03	Open Response – Human Coded	Uncertainty and Data	Societal	Employing Mathematical Concepts, Facts and Procedures	University of Melbourne	English	2012
M998Q02	Open Response – Human Coded	Change and Relationships	Personal	Interpreting, Applying and Evaluating Mathematical Outcomes	Israel	English	2012
M998Q04	Complex Multiple Choice – Data Entered	Change and Relationships	Personal	Employing Mathematical Concepts, Facts and Procedures	Israel	English	2012
M905Q01	Complex Multiple Choice – Data Entered	Quantity	Occupational	Interpreting, Applying and Evaluating Mathematical Outcomes	ACER	English	2012
M905Q02	Open Response – Human Coded	Quantity	Occupational	Interpreting, Applying and Evaluating Mathematical Outcomes	ACER	English	2012
M919Q01	Open Response – Human Coded	Quantity	Personal	Employing Mathematical Concepts, Facts and Procedures	IPN/Kassel	English	2012
M919Q02	Open Response – Human Coded	Quantity	Personal	Formulating Situations Mathematically	IPN/Kassel	English	2012
M954Q01	Open Response – Human Coded	Change and Relationships	Scientific	Employing Mathematical Concepts, Facts and Procedures	University of Melbourne	English	2012
M954Q02	Open Response – Human Coded	Change and Relationships	Scientific	Employing Mathematical Concepts, Facts and Procedures	University of Melbourne	English	2012
M954Q04	Open Response – Human Coded	Change and Relationships	Scientific	Employing Mathematical Concepts, Facts and Procedures	University of Melbourne	English	2012
M943Q01	Simple Multiple Choice – Data Entered	Change and Relationships	Occupational	Formulating Situations Mathematically	ACER	English	2012
M943Q02	Open Response – Human Coded	Space and Shape	Occupational	Formulating Situations Mathematically	ACER	English	2012
M953Q02	Open Response – Human Coded	Uncertainty and Data	Scientific	Interpreting, Applying and Evaluating Mathematical Outcomes	University of Melbourne	English	2012
M953Q03	Open Response – Human Coded	Uncertainty and Data	Scientific	Formulating Situations Mathematically	University of Melbourne	English	2012
M953Q04	Open Response – Human Coded	Uncertainty and Data	Scientific	Formulating Situations Mathematically	University of Melbourne	English	2012
M948Q01	Simple Multiple Choice – Data Entered	Quantity	Occupational	Interpreting, Applying and Evaluating Mathematical Outcomes	ACER	English	2012
M948Q02	Open Response – Human Coded	Quantity	Occupational	Employing Mathematical Concepts, Facts and Procedures	ACER	English	2012
M948Q03	Open Response – Human Coded	Quantity	Occupational	Employing Mathematical Concepts, Facts and Procedures	ACER	English	2012
M936Q01	Open Response – Human Coded	Change and Relationships	Occupational	Employing Mathematical Concepts, Facts and Procedures	MEG	English	2012
M936Q02	Open Response – Human Coded	Change and Relationships	Occupational	Formulating Situations Mathematically	MEG	English	2012
M961Q02	Open Response – Human Coded	Change and Relationships	Occupational	Employing Mathematical Concepts, Facts and Procedures	IPN/Kassel	English	2012
M961Q03	Simple Multiple Choice – Data Entered	Change and Relationships	Scientific	Employing Mathematical Concepts, Facts and Procedures	IPN/Kassel	English	2012
M961Q05	Open Response – Human Coded	Uncertainty and Data	Occupational	Interpreting, Applying and Evaluating Mathematical Outcomes	IPN/Kassel	English	2012
M939Q01	Simple Multiple Choice – Data Entered	Uncertainty and Data	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	MEG	English	2012
M939Q02	Simple Multiple Choice – Data Entered	Uncertainty and Data	Societal	Interpreting, Applying and Evaluating Mathematical Outcomes	MEG	English	2012
M967Q01	Open Response – Human Coded	Space and Shape	Personal	Employing Mathematical Concepts, Facts and Procedures	IPN/Kassel	English	2012
M967Q03	Complex Multiple Choice – Data Entered	Space and Shape	Personal	Formulating Situations Mathematically	IPN/Kassel	English	2012
M192Q01	Complex Multiple Choice – Data Entered	Change and Relationships	Scientific	Formulating Situations Mathematically	Germany	German	2012
M192Q01	Open Response – Human Coded	Change and Relationships	Scientific	Employing Mathematical Concepts, Facts and Procedures	Netherlands	English	2012

[Part 5/8]

Table A.4 PISA 2015 main survey trend math item classification

Generic ID	CBA international % correct	CBA international % correct S.E.	CBA item parameters (RP = 0.50)				CBA thresholds (RP = 0.62)		Level
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
M033Q01	74.66	0.22	1.000	-0.956			423		Level 2
M474Q01	62.20	0.24	1.000	-0.670			462		Level 2
M155Q02	54.57	0.22	1.000	-0.357	-0.424	0.424	466	510	Level 3
M155Q01	62.23	0.25	1.000	-0.672			462		Level 2
M155Q03	17.44	0.18	1.087	0.735	-0.201	0.201	614	663	Level 5
M155Q04	48.01	0.25	1.000	-0.276			516		Level 3
M411Q01	41.46	0.25	1.426	-0.075			531		Level 3
M411Q02	40.97	0.25	0.686	0.055			579		Level 4
M803Q01	20.86	0.21	1.695	0.514			607		Level 5
M442Q02	24.37	0.22	1.483	0.438			600		Level 4
M462Q01	9.68	0.14	0.883	1.142	-0.374	0.374	669	724	Level 6
M034Q01	33.77	0.25	1.000	0.251			587		Level 4
M305Q01	40.34	0.25	0.621	0.149			597		Level 4
M496Q01	41.85	0.25	1.000	-0.023			550		Level 4
M496Q02	60.48	0.25	1.000	-0.610			470		Level 2
M423Q01	75.91	0.22	0.586	-1.548			371		Level 1
M406Q01	20.64	0.21	1.780	0.512			606		Level 4
M406Q02	10.94	0.16	2.303	0.783			638		Level 5
M603Q01	33.78	0.24	0.765	0.326			610		Level 5
M571Q01	39.84	0.26	1.000	0.031			558		Level 4
M564Q01	46.10	0.26	0.631	-0.042			571		Level 4
M564Q02	44.38	0.26	1.000	-0.094			541		Level 3
M447Q01	58.66	0.24	1.000	-0.545			479		Level 2
M273Q01	41.32	0.25	0.737	0.061			576		Level 4
R111Q06	32.15	0.23	1.056	0.305			593		Level 4
M420Q01	43.22	0.25	0.840	-0.044			555		Level 4
M446Q01	59.88	0.25	1.402	-0.561			466		Level 2
M446Q02	7.09	0.13	1.000	1.705			785		Level 6
M559Q01	58.74	0.25	1.000	-0.616			470		Level 2
M828Q02	57.80	0.25	1.006	-0.534			480		Level 2
M828Q03	27.75	0.23	1.070	0.446			611		Level 5
M464Q01	20.59	0.21	1.643	0.523			609		Level 5
M800Q01	88.52	0.16	1.000	-1.805			308		Below Level 1
M982Q01	81.34	0.20	1.000	-1.475			353		Below Level 1
M982Q02	29.39	0.23	0.830	0.511			631		Level 5
M982Q03	61.83	0.25	1.000	-0.629			468		Level 2
M982Q04	43.61	0.25	1.087	-0.055			543		Level 3
M992Q01	70.40	0.23	1.000	-0.936			426		Level 2
M992Q02	14.53	0.18	1.321	0.883			664		Level 5
M992Q03	6.85	0.14	2.097	1.018			671		Level 6
M915Q01	38.50	0.25	0.830	0.152			582		Level 4
M915Q02	63.40	0.25	1.232	-0.737			446		Level 2

Table A.4 PISA 2015 main survey trend math item classification

| Generic ID | CBA international % correct | CBA international % correct S.E. | CBA item parameters (RP = 0.50) | | | | CBA thresholds (RP = 0.62) | | Level |
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
M906Q01	57.25	0.25	1.000	-0.499			486		Level 3
M906Q02	39.53	0.23	1.011	-0.009	-0.541	0.541	513	552	Level 4
M00KQ02	12.45	0.18	1.000	1.116			705		Level 6
M909Q01	81.00	0.21	1.000	-1.455			356		Below Level 1
M909Q02	52.93	0.25	1.000	-0.442			493		Level 3
M909Q03	27.40	0.23	1.821	0.258			571		Level 4
M949Q01	62.51	0.25	1.282	-0.642			457		Level 2
M949Q02	31.91	0.23	1.229	0.165			568		Level 4
M949Q03	28.09	0.23	0.631	0.313	-2.368	2.368	557	594	Level 4
M00GQ01	6.19	0.13	1.000	1.622			774		Level 6
M955Q01	65.19	0.23	0.857	-0.850			444		Level 2
M955Q02	29.96	0.24	1.274	0.308			587		Level 4
M955Q03	9.31	0.14	1.000	0.990	-0.773	0.773	649	682	Level 6
M998Q02	65.30	0.24	0.996	-0.734			454		Level 2
M998Q04	37.26	0.28	0.220	1.132			846		Level 6
M905Q01	74.44	0.25	1.000	-0.937			426		Level 2
M905Q02	39.16	0.29	1.870	0.122			552		Level 4
M919Q01	80.97	0.22	1.000	-1.246			384		Level 1
M919Q02	43.07	0.29	0.830	0.100			575		Level 4
M954Q01	66.99	0.28	1.505	-0.611			457		Level 2
M954Q02	33.15	0.27	1.286	0.361			594		Level 4
M954Q04	25.38	0.25	1.591	0.500			607		Level 5
M943Q01	52.95	0.29	0.737	-0.202			540		Level 3
M943Q02	5.26	0.14	1.804	1.331			717		Level 6
M953Q02	42.17	0.30	1.000	0.084			565		Level 4
M953Q03	53.34	0.31	1.662	-0.189			512		Level 3
M953Q04	19.87	0.25	1.000	0.730	-0.427	0.427	613	657	Level 5
M948Q01	77.19	0.44	1.141	-1.702			317		Below Level 1
M948Q02	53.57	0.54	1.000	-1.015			415		Level 1
M948Q03	6.05	0.26	1.000	0.978			686		Level 6
M936Q01	33.25	0.54	1.934	-0.462			472		Level 2
M936Q02	26.13	0.47	1.855	-0.399			481		Level 2
M961Q02	3.98	0.21	1.000	1.287			728		Level 6
M961Q03	35.84	0.53	1.000	-0.471			489		Level 3
M961Q05	34.61	0.47	0.705	-0.410	-0.190	0.190	459	542	Level 3
M939Q01	47.78	0.54	0.499	-0.560			517		Level 3
M939Q02	34.61	0.52	1.000	-0.312			511		Level 3
M967Q01	22.80	0.47	1.593	-0.163			517		Level 3
M967Q03	6.22	0.27	1.000	0.960			684		Level 6
M192Q01	NA	NA	NA	NA	NA	NA	NA	NA	NA
M192Q01	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A.4 PISA 2015 main survey trend math item classification

Generic ID	PBA international % correct	PBA international % correct S.E.	PBA item parameters (RP = 0.50)				PBA thresholds (RP = 0.62)		Level
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
M033Q01	51.33	0.53	1.000	-0.956			423		Level 2
M474Q01	49.13	0.54	1.000	-0.842			439		Level 2
M155Q02	29.15	0.47	1.000	-0.357	-0.424	0.424	466	510	Level 3
M155Q01	37.49	0.53	1.000	-0.582			474		Level 2
M155Q03	6.52	0.24	1.087	0.735	-0.201	0.201	614	663	Level 5
M155Q04	34.77	0.47	1.000	-0.276			516		Level 3
M411Q01	23.70	0.48	1.426	-0.075			531		Level 3
M411Q02	32.33	0.47	0.686	0.055			579		Level 4
M803Q01	8.41	0.32	1.695	0.444			598		Level 4
M442Q02	16.73	0.42	1.483	0.171			564		Level 4
M462Q01	6.71	0.28	0.883	1.142	-0.374	0.374	669	724	Level 6
M034Q01	20.40	0.49	1.000	0.158			575		Level 4
M305Q01	37.97	0.53	0.621	-0.534			505		Level 3
M496Q01	30.99	0.49	1.000	-0.203			526		Level 3
M496Q02	39.52	0.53	1.000	-0.608			471		Level 2
M423Q01	62.99	0.52	0.586	-1.548			371		Level 1
M406Q01	9.54	0.32	1.780	0.419			593		Level 4
M406Q02	4.92	0.24	2.303	0.664			621		Level 5
M603Q01	30.29	0.49	0.765	0.085			577		Level 4
M571Q01	29.96	0.49	1.000	-0.048			547		Level 4
M564Q01	35.51	0.52	0.631	-0.042			571		Level 4
M564Q02	36.80	0.49	1.000	-0.094			541		Level 3
M447Q01	40.52	0.53	1.000	-0.667			463		Level 2
M273Q01	36.97	0.51	0.737	-0.257			532		Level 3
R111Q06	17.75	0.41	1.056	0.210			580		Level 4
M420Q01	31.04	0.46	0.840	-0.044			555		Level 4
M446Q01	36.88	0.52	1.402	-0.561			466		Level 2
M446Q02	2.79	0.18	1.000	1.705			785		Level 6
M559Q01	48.88	0.57	1.000	-0.616			470		Level 2
M828Q02	33.05	0.50	1.006	-0.319			510		Level 3
M828Q03	15.13	0.40	1.070	0.446			611		Level 5
M464Q01	8.98	0.35	1.643	0.523			609		Level 5
M800Q01	84.06	0.42	1.000	-1.805			308		Below Level 1
M982Q01	73.49	0.49	1.000	-1.556			342		Below Level 1
M982Q02	20.81	0.44	0.830	0.511			631		Level 5
M982Q03	50.66	0.53	1.000	-0.672			462		Level 2
M982Q04	29.52	0.46	1.087	-0.123			533		Level 3
M992Q01	60.00	0.54	1.000	-1.096			404		Level 1
M992Q02	11.05	0.35	1.321	0.743			645		Level 5
M992Q03	4.78	0.24	2.097	1.018			671		Level 6
M915Q01	25.87	0.47	0.830	0.152			582		Level 4
M915Q02	52.61	0.56	1.232	-0.737			446		Level 2

Table A.4 PISA 2015 main survey trend math item classification

| Generic ID | PBA international % correct | PBA international % correct S.E. | PBA item parameters (RP = 0.50) | | | | PBA thresholds (RP = 0.62) | | Level |
			Slope	Difficulty	Step 1	Step 2	1.00	2.00	
M906Q01	45.19	0.54	1.000	-0.499			486		Level 3
M906Q02	26.59	0.46	1.011	-0.009	-0.541	0.541	513	552	Level 4
M00KQ02	11.24	0.35	1.000	1.116			705		Level 6
M909Q01	67.65	0.49	1.000	-1.607			335		Below Level 1
M909Q02	39.67	0.50	1.000	-0.509			484		Level 3
M909Q03	12.03	0.36	1.821	0.202			563		Level 4
M949Q01	49.61	0.53	1.282	-0.642			457		Level 2
M949Q02	27.37	0.51	1.229	0.165			568		Level 4
M949Q03	20.71	0.45	0.631	0.313	-2.368	2.368	557	594	Level 4
M00GQ01	3.60	0.20	1.000	1.622			774		Level 6
M955Q01	50.85	0.53	0.857	-0.850			444		Level 2
M955Q02	24.29	0.47	1.274	0.308			587		Level 4
M955Q03	5.38	0.23	1.000	0.977	-0.609	0.609	647	685	Level 6
M998Q02	42.56	0.56	0.996	-0.734			454		Level 2
M998Q04	37.24	0.55	0.220	1.132			846		Level 6
M905Q01	56.99	0.98	1.000	-1.019			415		Level 1
M905Q02	30.17	0.90	1.870	-0.112			520		Level 3
M919Q01	57.50	1.02	1.000	-1.339			371		Level 1
M919Q02	24.55	0.95	0.830	0.100			575		Level 4
M954Q01	48.87	1.00	1.505	-0.611			457		Level 2
M954Q02	14.42	0.69	1.286	0.361			594		Level 4
M954Q04	14.72	0.62	1.591	0.500			607		Level 5
M943Q01	41.91	0.99	0.737	-0.202			540		Level 3
M943Q02	4.59	0.48	1.804	1.331			717		Level 6
M953Q02	31.63	0.88	1.000	-0.084			542		Level 3
M953Q03	35.01	1.01	1.662	-0.142			518		Level 3
M953Q04	12.66	0.77	1.000	0.762	-0.501	0.501	618	659	Level 5
M948Q01	70.10	0.56	1.141	-1.702			317		Below Level 1
M948Q02	57.14	0.64	1.000	-1.015			415		Level 1
M948Q03	9.35	0.38	1.000	0.978			686		Level 6
M936Q01	40.66	0.72	1.934	-0.462			472		Level 2
M936Q02	34.60	0.64	1.855	-0.399			481		Level 2
M961Q02	8.62	0.34	1.000	1.287			728		Level 6
M961Q03	40.04	0.61	1.000	-0.471			489		Level 3
M961Q05	37.47	0.56	0.705	-0.410	-0.190	0.190	459	542	Level 3
M939Q01	49.65	0.67	0.499	-0.560			517		Level 3
M939Q02	37.92	0.64	1.000	-0.312			511		Level 3
M967Q01	28.94	0.60	1.593	-0.163			517		Level 3
M967Q03	7.01	0.37	1.000	0.960			684		Level 6
M192Q01	18.85	0.43	1.000	0.209			582		Level 4
M192Q01	17.04	0.39	1.372	0.256			577		Level 4

[Part 1/3]

Table A.5 PISA 2015 main survey financial literacy item classification

Generic ID	CBA item ID in main survey analysis output	Unit ID	Mode [paper-based (PB); computer-based (CB)]	2015 field trial and main survey cluster	Sequence in cluster	Sequence in unit	Item format
F001Q01	CF001Q01S	Costs of Running a Car	CB	F1	3	1/1	Complex Multiple Choice – Computer Scored
F004Q03	DF004Q03C	Income tax	CB	F2	20	1/1	Open Response – Human Coded
F006Q02	CF006Q02S	Music system	CB	F2	4	1/1	Complex Multiple Choice – Computer Scored
F009Q02	CF009Q02S	Shopping	CB	F1	1	1/1	Simple Multiple Choice – Computer Scored
F010Q01	CF010Q01S	Bank statement	CB	F1	14	1/2	Open Response – Computer Scored
F010Q02	CF010Q02S	Bank statement	CB	F1	15	2/2	Open Response – Computer Scored
F012Q01	CF012Q01S	Interest	CB	F1	12	1/2	Simple Multiple Choice – Computer Scored
F012Q02	CF012Q02S	Interest	CB	F1	13	2/2	Complex Multiple Choice – Computer Scored
F024Q02	DF024Q02C	Jacket sale	CB	F2	12	1/1	Open Response – Human Coded
F028Q02	DF028Q02C	Phone plans	CB	F1	5	1/2	Open Response – Human Coded
F028Q03	CF028Q03S	Phone plans	CB	F1	6	2/2	Simple Multiple Choice – Computer Scored
F031Q01	CF031Q01S	Laptop	CB	F1	10	1/2	Complex Multiple Choice – Computer Scored
F031Q02	CF031Q02S	Laptop	CB	F1	11	2/2	Open Response – Computer Scored
F033Q01	CF033Q01S	Wayne's Bank Statement	CB	F2	13	1/2	Simple Multiple Choice – Computer Scored
F033Q02	CF033Q02S	Wayne's Bank Statement	CB	F2	14	2/2	Simple Multiple Choice – Computer Scored
F035Q01	CF035Q01S	Ring-Tones	CB	F2	16	1/1	Open Response – Computer Scored
F036Q01	DF036Q01C	Online Shopping	CB	F1	17	1/1	Open Response – Human Coded
F051Q01	DF051Q01C	Bicycle Shop	CB	F2	6	1/2	Open Response – Human Coded
F051Q02	DF051Q02C	Bicycle Shop	CB	F2	7	2/2	Open Response – Human Coded
F052Q01	CF052Q01S	Video Game	CB	F2	9	1/1	Complex Multiple Choice – Computer Scored
F054Q01	DF054Q01C	E-mail	CB	F1	4	1/1	Open Response – Human Coded
F058Q01	DF058Q01C	PIN	CB	F2	3	1/1	Open Response – Human Coded
F062Q01	CF062Q01S	Mobile Phone Contract	CB	F2	8	1/1	Complex Multiple Choice – Computer Scored
F068Q01	DF068Q01C	Job Change	CB	F1	9	1/1	Open Response – Human Coded
F069Q01	CF069Q01S	Student Account	CB	F2	5	1/1	Complex Multiple Choice – Computer Scored
F075Q02	CF075Q02S	Study Options	CB	F2	17	1/1	Complex Multiple Choice – Computer Scored
F082Q01	DF082Q01C	New Bike	CB	F1	7	1/2	Open Response – Human Coded
F082Q02	CF082Q02S	New Bike	CB	F1	8	2/2	Simple Multiple Choice – Computer Scored
F095Q01	CF095Q01S	Changing Value	CB	F2	18	1/2	Simple Multiple Choice – Computer Scored
F095Q02	CF095Q02S	Changing Value	CB	F2	19	2/2	Complex Multiple Choice – Computer Scored
F097Q01	CF097Q01S	Company Profit	CB	F1	19	1/1	Complex Multiple Choice – Computer Scored
F102Q01	CF102Q01S	Gantica	CB	F2	1	1/2	Open Response – Computer Scored
F102Q02	DF102Q02C	Gantica	CB	F2	2	2/2	Open Response – Human Coded
F103Q01	DF103Q01C	Investing	CB	F1	18	1/1	Open Response – Human Coded
F105Q01	CF105Q01S	Interest Rates	CB	F1	21	1/2	Simple Multiple Choice – Computer Scored
F105Q02	CF105Q02S	Interest Rates	CB	F1	22	2/2	Simple Multiple Choice – Computer Scored
F106Q01	DF106Q01C	Family Holiday	CB	F2	10	1/2	Open Response – Human Coded
F106Q02	CF106Q02S	Family Holiday	CB	F2	11	2/2	Simple Multiple Choice – Computer Scored
F110Q01	CF110Q01S	Living Alone	CB	F1	2	1/1	Complex Multiple Choice – Computer Scored
F200Q01	DF200Q01C	Charitable Giving	CB	F1	20	1/1	Open Response – Human Coded
F201Q01	DF201Q01C	Emergency Funds	CB	F1	16	1/1	Open Response – Human Coded
F202Q01	CF202Q01S	Book Purchase	CB	F2	15	1/1	Complex Multiple Choice – Computer Scored
F203Q01	DF203Q01C	No Credit	CB	F2	21	1/1	Open Response – Human Coded

[Part 2/3]

Table A.5 PISA 2015 main survey financial literacy item classification

Generic ID	Content	Process	Context	Unit origin	Language of submission	Source
F001Q01	Planning and Managing Finances	Analyse information in a financial context	Home and family	ACER	English	2012
F004Q03	Planning and Managing Finances	Evaluate financial Issues	Education and work	ACER	English	2012
F006Q02	Planning and Managing Finances	Analyse information in a financial context	Individual	ACER	English	2012
F009Q02	Money and Transactions	Apply financial knowledge and understanding	Home and family	ACER	English	2012
F010Q01	Money and Transactions	Identify financial information	Home and family	ACER	English	2012
F010Q02	Money and Transactions	Analyse information in a financial context	Home and family	ACER	English	2012
F012Q01	Risk and reward	Apply financial knowledge and understanding	Individual	ACER	English	2012
F012Q02	Risk and Reward	Analyse information in a financial context	Individual	ACER	English	2012
F024Q02	Money and Transactions	Evaluate financial issues	Individual	ACER	English	2012
F028Q02	Planning and Managing Finances	Analyse information in a financial context	Individual	ACER	English	2012
F028Q03	Planning and Managing Finances	Analyse information in a financial context	Individual	ACER	English	2012
F031Q01	Risk and Reward	Evaluate financial issues	Home and family	ACER	English	2012
F031Q02	Risk and reward	Apply financial knowledge and understanding	Home and family	ACER	English	2012
F033Q01	Money and Transactions	Analyse information in a financial context	Individual	ACER	English	2012
F033Q02	Money and Transactions	Identify financial information	Individual	ACER	English	2012
F035Q01	Financial Landscape	Apply financial knowledge and understanding	Individual	ACER	English	2012
F036Q01	Financial Landscape	Evaluate financial issues	Societal	ACER	English	2012
F051Q01	Planning and Managing Finances	Evaluate financial issues	Education and work	ACER	English	2012
F051Q02	Planning and Managing Finances	Evaluate financial issues	Education and work	ACER	English	2012
F052Q01	Planning and Managing Finances	Identify financial information	Individual	ACER	English	2012
F054Q01	Financial Landscape	Evaluate financial issues	Societal	ACER	English	2012
F058Q01	Risk and Reward	Evaluate financial issues	Societal	ACER	English	2012
F062Q01	Financial Landscape	Evaluate financial issues	Home and family	ACER	English	2012
F068Q01	Planning and Managing Finances	Evaluate financial issues	Education and work	ACER	English	2012
F069Q01	Financial Landscape	Analyse information in a financial context	Education and work	ACER	English	2012
F075Q02	Planning and Managing Finances	Analyse information in a financial context	Education and work	ACER	English	2012
F082Q01	Money and Transactions	Identify financial information	Individual	ACER	English	2012
F082Q02	Risk and Reward	Identify financial information	Home and family	ACER	English	2012
F095Q01	Money and Transactions	Identify financial information	Home and family	ACER	English	2012
F095Q02	Financial Landscape	Analyse information in a financial context	Societal	ACER	English	2012
F097Q01	Financial Landscape	Identify financial information	Individual	ACER	English	2012
F102Q01	Risk and Reward	Apply financial knowledge and understanding	Home and family	ACER	English	2012
F102Q02	Risk and Reward	Apply financial knowledge and understanding	Home and family	ACER	English	2012
F103Q01	Risk and Reward	Evaluate financial issues	Individual	ACER	English	2012
F105Q01	Money and Transactions	Apply financial knowledge and understanding	Individual	ACER	English	2012
F105Q02	Money and Transactions	Apply financial knowledge and understanding	Individual	ACER	English	2012
F106Q01	Planning and Managing Finances	Evaluate financial issues	Home and family	ACER	English	2012
F106Q02	Planning and Managing Finances	Apply financial knowledge and understanding	Home and family	ACER	English	2012
F110Q01	Planning and Managing Finances	Evaluate financial issues	Home and family	ACER	English	2012
F200Q01	Financial Landscape	Evaluate financial issues	Societal	ETS	English	2015
F201Q01	Planning and Managing Finances	Analyse information in a financial context	Individual	ETS	English	2015
F202Q01	Money and Transactions	Apply financial knowledge and understanding	Home and family	ETS	English	2015
F203Q01	Financial Landscape	Evaluate financial Issues	Individual	ETS	English	2015

[Part 3/3]

Table A.5 PISA 2015 main survey financial literacy item classification

| Generic ID | International % correct | International % correct S.E. | Item parameters (RP = 0.50) | | | | Thresholds (RP = .62) | | Level |
			Slope	Difficulty	Step 1	Step 2	1	2	
F001Q01	60.37	0.36	0.807	-0.400			485		Level 3
F004Q03	4.08	0.17	1.431	1.847			778		Level 5
F006Q02	43.78	0.35	0.664	0.227			583		Level 4
F009Q02	88.32	0.22	0.980	-1.644			302		Below Level 1
F010Q01	32.36	0.33	1.296	0.496			591		Level 4
F010Q02	16.62	0.24	1.066	0.988	-0.196	0.196	629	682	Level 5
F012Q01	53.43	0.35	0.658	-0.187			526		Level 3
F012Q02	48.45	0.35	0.110	0.421			917		Level 5
F024Q02	50.73	0.34	0.815	0.027			544		Level 3
F028Q02	43.33	0.36	1.058	0.108			544		Level 3
F028Q03	58.88	0.34	0.765	-0.373			491		Level 3
F031Q01	23.86	0.30	0.286	2.287			952		Level 5
F031Q02	48.30	0.34	0.866	0.068			547		Level 3
F033Q01	26.12	0.31	0.701	0.983			686		Level 5
F033Q02	52.69	0.35	0.606	-0.189			531		Level 3
F035Q01	30.12	0.33	0.996	0.610			617		Level 4
F036Q01	42.98	0.37	0.899	0.161			558		Level 4
F051Q01	74.46	0.34	1.305	-0.782			412		Level 2
F051Q02	36.00	0.35	0.925	0.398			590		Level 4
F052Q01	53.52	0.38	1.068	-0.108			513		Level 3
F054Q01	54.03	0.34	0.618	-0.221			525		Level 3
F058Q01	75.96	0.30	0.674	-1.459			346		Level 1
F062Q01	59.46	0.35	0.893	-0.465			471		Level 2
F068Q01	38.50	0.37	1.075	0.288			569		Level 4
F069Q01	58.28	0.36	1.149	-0.264			489		Level 3
F075Q02	28.39	0.30	0.329	1.727			855		Level 5
F082Q01	60.01	0.33	0.573	-0.376	-0.518	0.518	438	527	Level 3
F082Q02	76.09	0.32	0.732	-1.244			372		Level 1
F095Q01	37.57	0.35	0.634	0.577			635		Level 5
F095Q02	22.29	0.31	1.030	0.933			661		Level 5
F097Q01	7.85	0.21	1.349	1.519			733		Level 5
F102Q01	76.57	0.32	1.210	-0.917			396		Level 1
F102Q02	50.84	0.26	0.562	-0.028	0.635	-0.635	487	669	Level 5
F103Q01	25.65	0.32	1.346	0.708			620		Level 4
F105Q01	26.81	0.33	0.758	0.897			670		Level 5
F105Q02	35.97	0.35	0.898	0.424			595		Level 4
F106Q01	68.16	0.35	1.092	-0.692			431		Level 2
F106Q02	40.22	0.36	0.651	0.390			607		Level 4
F110Q01	79.50	0.29	1.133	-1.199			358		Level 1
F200Q01	58.12	0.33	0.874	-0.568			457		Level 2
F201Q01	57.40	0.37	1.136	-0.261			490		Level 3
F202Q01	38.55	0.36	0.776	0.420			602		Level 4
F203Q01	38.03	0.35	0.319	0.552	-3.862	3.862	568	652	Level 5

[Part 1/6]

Table A.6 PISA 2015 main survey CPS item classification

Item ID in analysis output	Unit name	C020C015 main survey cluster	Part	Score points	CPS skills	CPS competencies
CC104101	Meeting in the Park	C01	1	1	B2	Taking appropriate action to solve the problem
CC104102	Meeting in the Park	C01	1	1	A1	Establishing and maintaining shared understanding
CC104103	Meeting in the Park	C01	1	1	A2	Taking appropriate action to solve the problem
CC104105	Meeting in the Park	C01	1	1	B1	Establishing and maintaining shared understanding
CC104106	Meeting in the Park	C01	1	1	B1	Establishing and maintaining shared understanding
CC104107	Meeting in the Park	C01	1	1	B1	Establishing and maintaining shared understanding
CC106101	Making a Film	C01	1	1	A1	Establishing and maintaining shared understanding
CC106102	Making a Film	C01	1	1	A1	Establishing and maintaining shared understanding
CC106103	Making a Film	C01	1	1	A1	Establishing and maintaining shared understanding
CC106104	Making a Film	C01	1	1	C3	Establishing and maintaining team organisation
CC106105	Making a Film	C01	1	1	A2	Taking appropriate action to solve the problem
CC106106	Making a Film	C01	1	1	A1	Establishing and maintaining shared understanding
CC106107C	Making a Film	C01	1	3, 2, 1, 0	C3	Establishing and maintaining team organisation
CC104201	Meeting in the Park	C01	2	1	B3	Establishing and maintaining team organisation
CC104202	Meeting in the Park	C01	2	1	B1	Establishing and maintaining shared understanding
CC104203	Meeting in the Park	C01	2	1	B1	Establishing and maintaining shared understanding
CC104204	Meeting in the Park	C01	2	1	D3	Establishing and maintaining team organisation
CC104205	Meeting in the Park	C01	2	1	B2	Taking appropriate action to solve the problem
CC104206	Meeting in the Park	C01	2	1	C1	Establishing and maintaining shared understanding
CC106201	Making a Film	C01	2	1	A1	Establishing and maintaining shared understanding
CC106202	Making a Film	C01	2	1	B3	Establishing and maintaining team organisation
CC106203	Making a Film	C01	2	1	B3	Establishing and maintaining team organisation
CC106204	Making a Film	C01	2	1	B2	Taking appropriate action to solve the problem
CC106205	Making a Film	C01	2	1	B2	Taking appropriate action to solve the problem
CC106206	Making a Film	C01	2	1	D3	Establishing and maintaining team organisation
CC106207	Making a Film	C01	2	1	C3	Establishing and maintaining team organisation
CC106208	Making a Film	C01	2	1	C3	Establishing and maintaining team organisation
CC106209	Making a Film	C01	2	2, 1	C2	Taking appropriate action to solve the problem
CC104301C	Meeting in the Park	C01	3	3, 2, 1, 0	C1	Establishing and maintaining shared understanding
CC104305	Meeting in the Park	C01	3	1	D2	Taking appropriate action to solve the problem
CC104306	Meeting in the Park	C01	3	1	C2	Taking appropriate action to solve the problem
CC106301	Making a Film	C01	3	1	A1	Establishing and maintaining shared understanding
CC106302	Making a Film	C01	3	1	A1	Establishing and maintaining shared understanding
CC106303	Making a Film	C01	3	1	A1	Establishing and maintaining shared understanding
CC106304	Making a Film	C01	3	1	D1	Establishing and maintaining shared understanding
CC106305	Making a Film	C01	3	1	D1	Establishing and maintaining shared understanding
CC106306	Making a Film	C01	3	1	C3	Establishing and maintaining team organisation
CC106307	Making a Film	C01	3	2, 1	C2	Taking appropriate action to solve the problem
CC102101	Field Trip	C02	1	1	C3	Establishing and maintaining team organisation
CC102102C	Field Trip	C02	1	2, 1, 0	D1	Establishing and maintaining shared understanding
CC103101	Preparing a Presentation	C02	1	1	A1	Establishing and maintaining shared understanding
CC103102	Preparing a Presentation	C02	1	1	A1	Establishing and maintaining shared understanding
CC103103	Preparing a Presentation	C02	1	1	A1	Establishing and maintaining shared understanding
CC103104	Preparing a Presentation	C02	1	1	A1	Establishing and maintaining shared understanding
CC103105	Preparing a Presentation	C02	1	1	A1	Establishing and maintaining shared understanding
CC103106	Preparing a Presentation	C02	1	1	A1	Establishing and maintaining shared understanding
CC103107	Preparing a Presentation	C02	1	1	A1	Establishing and maintaining shared understanding
CC103108C	Preparing a Presentation	C02	1	4, 3, 2, 1, 0	A1	Establishing and maintaining shared understanding
CC102201	Field Trip	C02	2	1	B1	Establishing and maintaining shared understanding
CC102202	Field Trip	C02	2	1	D2	Taking appropriate action to solve the problem
CC102203	Field Trip	C02	2	1	C3	Establishing and maintaining team organisation
CC102204	Field Trip	C02	2	1	B2	Taking appropriate action to solve the problem
CC102205	Field Trip	C02	2	1	C3	Establishing and maintaining team organisation
CC102206	Field Trip	C02	2	1	B1	Establishing and maintaining shared understanding
CC102207	Field Trip	C02	2	1	C3	Establishing and maintaining team organisation
CC102209C	Field Trip	C02	2	3, 2, 1, 0	C2	Taking appropriate action to solve the problem
CC102212	Field Trip	C02	2	1	C2	Taking appropriate action to solve the problem
CC102213	Field Trip	C02	2	1	C2	Taking appropriate action to solve the problem
CC103201	Preparing a Presentation	C02	2	1	C3	Establishing and maintaining team organisation

[Part 2/6]

Table A.6 PISA 2015 main survey CPS item classification

Item ID in analysis output	Unit name	C020C015 main survey cluster	Part	Score points	CPS skills	CPS competencies
CC103202	Preparing a Presentation	C02	2	1	C3	Establishing and maintaining team organisation
CC103203	Preparing a Presentation	C02	2	1	B1	Establishing and maintaining shared understanding
CC103204	Preparing a Presentation	C02	2	1	D1	Establishing and maintaining shared understanding
CC103205	Preparing a Presentation	C02	2	1	D1	Establishing and maintaining shared understanding
CC103206	Preparing a Presentation	C02	2	1	B1	Establishing and maintaining shared understanding
CC103207	Preparing a Presentation	C02	2	1	D1	Establishing and maintaining shared understanding
CC103209	Preparing a Presentation	C02	2	1	C2	Taking appropriate action to solve the problem
CC103210	Preparing a Presentation	C02	2	1	C2	Taking appropriate action to solve the problem
CC103211	Preparing a Presentation	C02	2	1	C2	Taking appropriate action to solve the problem
CC103301	Preparing a Presentation	C02	3	1	D1	Establishing and maintaining shared understanding
CC103302	Preparing a Presentation	C02	3	1	B1	Establishing and maintaining shared understanding
CC103303	Preparing a Presentation	C02	3	1	D1	Establishing and maintaining shared understanding
CC103304	Preparing a Presentation	C02	3	1	B1	Establishing and maintaining shared understanding
CC103305	Preparing a Presentation	C02	3	1	B1	Establishing and maintaining shared understanding
CC103306	Preparing a Presentation	C02	3	1	B1	Establishing and maintaining shared understanding
CC103307	Preparing a Presentation	C02	3	1	B1	Establishing and maintaining shared understanding
CC103308	Preparing a Presentation	C02	3	1	C2	Taking appropriate action to solve the problem
CC103309	Preparing a Presentation	C02	3	1	C2	Taking appropriate action to solve the problem
CC100101	Xandar	C03	1	1	C3	Establishing and maintaining team organisation
CC100102	Xandar	C03	1	1	C1	Establishing and maintaining shared understanding
CC100103	Xandar	C03	1	1	B1	Establishing and maintaining shared understanding
CC100104	Xandar	C03	1	1	B1	Establishing and maintaining shared understanding
CC100105	Xandar	C03	1	1	B3	Establishing and maintaining team organisation
CC105101	The Garden	C03	1	2 , 1	B1	Establishing and maintaining shared understanding
CC105102	The Garden	C03	1	1	A1	Establishing and maintaining shared understanding
CC105103C	The Garden	C03	1	2, 1, 0	C1	Establishing and maintaining shared understanding
CC105105C	The Garden	C03	1	2, 1, 0	C2	Taking appropriate action to solve the problem
CC105108C	The Garden	C03	1	2, 1, 0	C2	Taking appropriate action to solve the problem
CC100201	Xandar	C03	2	1	A1	Establishing and maintaining shared understanding
CC100202	Xandar	C03	2	1	B3	Establishing and maintaining team organisation
CC100203	Xandar	C03	2		B3	Establishing and maintaining team organisation
CC105201C	The Garden	C03	2	2, 1, 0	A1	Establishing and maintaining shared understanding
CC105203C	The Garden	C03	2	3, 2, 1, 0	B3	Establishing and maintaining team organisation
CC105205	The Garden	C03	2	2 , 1	D1	Establishing and maintaining shared understanding
CC105206	The Garden	C03	2	1	C2	Taking appropriate action to solve the problem
CC105207	The Garden	C03	2	2	D3	Establishing and maintaining team organisation
CC105208C	The Garden	C03	2	3, 2, 1, 0	C2	Taking appropriate action to solve the problem
CC105211	The Garden	C03	2	1	D3	Establishing and maintaining team organisation
CC105212C	The Garden	C03	2	2, 1, 0	C2	Taking appropriate action to solve the problem
CC105214	The Garden	C03	2	1	D3	Establishing and maintaining team organisation
CC100301	Xandar	C03	3	1	C3	Establishing and maintaining team organisation
CC100302	Xandar	C03	3	1	D1	Establishing and maintaining shared understanding
CC105301	The Garden	C03	3	1	B1	Establishing and maintaining shared understanding
CC105302	The Garden	C03	3	1	B1	Establishing and maintaining shared understanding
CC105303	The Garden	C03	3	1	D1	Establishing and maintaining shared understanding
CC105304C	The Garden	C03	3	1, 0	C1	Establishing and maintaining shared understanding
CC105306	The Garden	C03	3	1	B1	Establishing and maintaining shared understanding
CC105307	The Garden	C03	3	2, 2, 1	B1	Establishing and maintaining shared understanding
CC105308C	The Garden	C03	3	3, 2, 1, 0	D3	Establishing and maintaining team organisation
CC100401	Xandar	C03	4	1	D2	Taking appropriate action to solve the problem
CC100402	Xandar	C03	4	1	D3	Establishing and maintaining team organisation
CC105401	The Garden	C03	4	1	D1	Establishing and maintaining shared understanding
CC105402	The Garden	C03	4	1	B1	Establishing and maintaining shared understanding
CC105403	The Garden	C03	4	1	B1	Establishing and maintaining shared understanding
CC105404	The Garden	C03	4	1	B1	Establishing and maintaining shared understanding
CC105406	The Garden	C03	4	1	B3	Establishing and maintaining team organisation
CC105407	The Garden	C03	4	1	C3	Establishing and maintaining team organisation
CC105408C	The Garden	C03	4	2, 1, 0	D3	Establishing and maintaining team organisation

[Part 3/6]

Table A.6 PISA 2015 main survey CPS item classification

Item ID in analysis output	Problem solving processes	CPS skills	Unit origin	Language of submission
CC104101	Representing and Formulating	Identifying and describing tasks to be completed	CET, Israel	English
CC104102	Exploring and Understanding	Discovering perspectives and abilities of team members	CET, Israel	English
CC104103	Exploring and Understanding	Discovering the type of collaborative interaction to solve the problem, along with goals	CET, Israel	English
CC104105	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	CET, Israel	English
CC104106	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	CET, Israel	English
CC104107	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	CET, Israel	English
CC106101	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC106102	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC106103	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC106104	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	University of Heidelberg, Germany	English
CC106105	Exploring and Understanding	Discovering the type of collaborative interaction to solve the problem, along with goals	University of Heidelberg, Germany	English
CC106106	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC106107C	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	University of Heidelberg, Germany	English
CC104201	Representing and Formulating	Describe roles and team organisation (communication protocol/rules of engagement)	CET, Israel	English
CC104202	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	CET, Israel	English
CC104203	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	CET, Israel	English
CC104204	Monitoring and reflecting	Monitoring, providing feedback and adapting the team organisation and roles	CET, Israel	English
CC104205	Representing and Formulating	Identifying and describing tasks to be completed	CET, Israel	English
CC104206	Planning and Executing	Communicating with team members about the actions to be/ being performed	CET, Israel	English
CC106201	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC106202	Representing and Formulating	Describe roles and team organisation (communication protocol/rules of engagement)	University of Heidelberg, Germany	English
CC106203	Representing and Formulating	Describe roles and team organisation (communication protocol/rules of engagement)	University of Heidelberg, Germany	English
CC106204	Representing and Formulating	Identifying and describing tasks to be completed	University of Heidelberg, Germany	English
CC106205	Representing and Formulating	Identifying and describing tasks to be completed	University of Heidelberg, Germany	English
CC106206	Monitoring and reflecting	Monitoring, providing feedback and adapting the team organisation and roles	University of Heidelberg, Germany	English
CC106207	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	University of Heidelberg, Germany	English
CC106208	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	University of Heidelberg, Germany	English
CC106209	Planning and Executing	Enacting plans	University of Heidelberg, Germany	English
CC104301C	Planning and Executing	Communicating with team members about the actions to be/ being performed	CET, Israel	English
CC104305	Monitoring and reflecting	Monitoring the results of actions and evaluating success in solving the problem	CET, Israel	English
CC104306	Planning and Executing	Enacting plans	CET, Israel	English
CC106301	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC106302	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC106303	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC106304	Monitoring and reflecting	Monitoring and repairing the shared understanding	University of Heidelberg, Germany	English
CC106305	Monitoring and reflecting	Monitoring and repairing the shared understanding	University of Heidelberg, Germany	English
CC106306	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	University of Heidelberg, Germany	English
CC106307	Planning and Executing	Enacting plans	University of Heidelberg, Germany	English
CC102101	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	GESIS, Germany	English
CC102102C	Monitoring and reflecting	Monitoring and repairing the shared understanding	GESIS, Germany	English
CC103101	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC103102	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC103103	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC103104	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC103105	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC103106	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC103107	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC103108C	Exploring and Understanding	Discovering perspectives and abilities of team members	University of Heidelberg, Germany	English
CC102201	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	GESIS, Germany	English
CC102202	Monitoring and reflecting	Monitoring the results of actions and evaluating success in solving the problem	GESIS, Germany	English
CC102203	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	GESIS, Germany	English
CC102204	Representing and Formulating	Identifying and describing tasks to be completed	GESIS, Germany	English
CC102205	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	GESIS, Germany	English
CC102206	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	GESIS, Germany	English
CC102207	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	GESIS, Germany	English
CC102209C	Planning and Executing	Enacting plans	GESIS, Germany	English
CC102212	Planning and Executing	Enacting plans	GESIS, Germany	English
CC102213	Planning and Executing	Enacting plans	GESIS, Germany	English
CC103201	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	University of Heidelberg, Germany	English

[Part 4/6]

Table A.6 PISA 2015 main survey CPS item classification

Item ID in analysis output	Problem solving processes	CPS skills	Unit origin	Language of submission
CC103202	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	University of Heidelberg, Germany	English
CC103203	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	University of Heidelberg, Germany	English
CC103204	Monitoring and reflecting	Monitoring and repairing the shared understanding	University of Heidelberg, Germany	English
CC103205	Monitoring and reflecting	Monitoring and repairing the shared understanding	University of Heidelberg, Germany	English
CC103206	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	University of Heidelberg, Germany	English
CC103207	Monitoring and reflecting	Monitoring and repairing the shared understanding	University of Heidelberg, Germany	English
CC103209	Planning and Executing	Enacting plans	University of Heidelberg, Germany	English
CC103210	Planning and Executing	Enacting plans	University of Heidelberg, Germany	English
CC103211	Planning and Executing	Enacting plans	University of Heidelberg, Germany	English
CC103301	Monitoring and reflecting	Monitoring and repairing the shared understanding	University of Heidelberg, Germany	English
CC103302	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	University of Heidelberg, Germany	English
CC103303	Monitoring and reflecting	Monitoring and repairing the shared understanding	University of Heidelberg, Germany	English
CC103304	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	University of Heidelberg, Germany	English
CC103305	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	University of Heidelberg, Germany	English
CC103306	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	University of Heidelberg, Germany	English
CC103307	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	University of Heidelberg, Germany	English
CC103308	Planning and Executing	Enacting plans	University of Heidelberg, Germany	English
CC103309	Planning and Executing	Enacting plans	University of Heidelberg, Germany	English
CC100101	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	ETS, USA	English
CC100102	Planning and Executing	Communicating with team members about the actions to be/ being performed	ETS, USA	English
CC100103	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	ETS, USA	English
CC100104	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	ETS, USA	English
CC100105	Representing and Formulating	Describe roles and team organisation (communication protocol/rules of engagement)	ETS, USA	English
CC105101	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	ETS, USA	English
CC105102	Exploring and Understanding	Discovering perspectives and abilities of team members	ETS, USA	English
CC105103C	Planning and Executing	Communicating with team members about the actions to be/ being performed	ETS, USA	English
CC105105C	Planning and Executing	Enacting plans	ETS, USA	English
CC105108C	Planning and Executing	Enacting plans	ETS, USA	English
CC100201	Exploring and Understanding	Discovering perspectives and abilities of team members	ETS, USA	English
CC100202	Representing and Formulating	Describe roles and team organisation (communication protocol/rules of engagement)	ETS, USA	English
CC100203	Representing and Formulating	Describe roles and team organisation (communication protocol/rules of engagement)	ETS, USA	English
CC105201C	Exploring and Understanding	Discovering perspectives and abilities of team members	ETS, USA	English
CC105203C	Representing and Formulating	Describe roles and team organisation (communication protocol/rules of engagement)	ETS, USA	English
CC105205	Monitoring and reflecting	Monitoring and repairing the shared understanding	ETS, USA	English
CC105206	Planning and Executing	Enacting plans	ETS, USA	English
CC105207	Monitoring and reflecting	Monitoring, providing feedback and adapting the team organisation and roles	ETS, USA	English
CC105208C	Planning and Executing	Enacting plans	ETS, USA	English
CC105211	Monitoring and reflecting	Monitoring, providing feedback and adapting the team organisation and roles	ETS, USA	English
CC105212C	Planning and Executing	Enacting plans	ETS, USA	English
CC105214	Monitoring and reflecting	Monitoring, providing feedback and adapting the team organisation and roles	ETS, USA	English
CC100301	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	ETS, USA	English
CC100302	Monitoring and reflecting	Monitoring and repairing the shared understanding	ETS, USA	English
CC105301	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	ETS, USA	English
CC105302	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	ETS, USA	English
CC105303	Monitoring and reflecting	Monitoring and repairing the shared understanding	ETS, USA	English
CC105304C	Planning and Executing	Communicating with team members about the actions to be/ being performed	ETS, USA	English
CC105306	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	ETS, USA	English
CC105307	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	ETS, USA	English
CC105308C	Monitoring and reflecting	Monitoring, providing feedback and adapting the team organisation and roles	ETS, USA	English
CC100401	Monitoring and reflecting	Monitoring the results of actions and evaluating success in solving the problem	ETS, USA	English
CC100402	Monitoring and reflecting	Monitoring, providing feedback and adapting the team organisation and roles	ETS, USA	English
CC105401	Monitoring and reflecting	Monitoring and repairing the shared understanding	ETS, USA	English
CC105402	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	ETS, USA	English
CC105403	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	ETS, USA	English
CC105404	Representing and Formulating	Building a shared representation and negotiating the meaning of the problem (common ground)	ETS, USA	English
CC105406	Representing and Formulating	Describe roles and team organisation (communication protocol/rules of engagement)	ETS, USA	English
CC105407	Planning and Executing	Following rules of engagement (e.g., prompting other team members to perform their tasks)	ETS, USA	English
CC105408C	Monitoring and reflecting	Monitoring, providing feedback and adapting the team organisation and roles	ETS, USA	English

[Part 5/6]

Table A.6 PISA 2015 main survey CPS item classification

Item ID in analysis output	International % correct	International % correct S.E.	Item parameters (RP = 0.50)					Thresholds (RP = .62)				Level
			Slope	Difficulty	Step 1	Step 2	Step 3	Step 4	1	2	3	4	
CC104101	70.03	0.21	0.926	-0.563					413				Level 1
CC104102	64.52	0.22	1.461	-0.220					458				Level 2
CC104103	56.41	0.23	1.442	-0.025					497				Level 2
CC104105	29.03	0.20	1.197	0.652					638				Level 3
CC104106	78.48	0.19	0.729	-1.010					342				Level 1
CC104107	62.06	0.21	0.824	-0.363					460				Level 2
CC106101	58.87	0.23	1.373	-0.080					488				Level 2
CC106102	30.20	0.23	0.398	1.404					882				Level 4
CC106103	55.22	0.23	1.279	-0.002					507				Level 2
CC106104	59.83	0.22	0.746	-0.216					496				Level 2
CC106105	57.59	0.22	0.933	-0.103					503				Level 2
CC106106	31.78	0.21	0.352	1.431					906				Level 4
CC106107C	50.52	0.26	0.655	0.442	0.371	-3.585	3.214		508	638	659		Level 4
CC104201	51.43	0.22	1.278	0.072					521				Level 2
CC104202	44.07	0.22	0.598	0.404					637				Level 3
CC104203	67.01	0.22	1.767	-0.225					451				Level 2
CC104204	62.43	0.22	1.504	-0.134					474				Level 2
CC104205	66.61	0.21	0.447	-0.835					425				Level 1
CC104206	78.63	0.19	1.141	-0.682					378				Level 1
CC106201	55.58	0.23	0.953	-0.014					519				Level 2
CC106202	22.32	0.19	0.356	2.270					1069				Level 4
CC106203	36.22	0.22	0.199	2.014					1144				Level 4
CC106204	35.43	0.23	1.246	0.469					600				Level 3
CC106205	56.51	0.23	1.568	-0.018					495				Level 2
CC106206	65.48	0.22	0.961	-0.321					459				Level 2
CC106207	47.36	0.23	1.198	0.168					543				Level 3
CC106208	87.65	0.16	1.561	-0.836					335				Below Level 1
CC106209	54.80	0.20	1.018	-0.005	-0.040	0.040			462	554			Level 3
CC104301C	105.30	0.23	0.954	-0.439	0.554	-0.192	-0.362		311	453	545		Level 3
CC104305	70.06	0.21	0.889	-0.518					425				Level 1
CC104306	90.78	0.13	1.791	-0.933					311				Below Level 1
CC106301	44.70	0.23	1.542	0.206					540				Level 2
CC106302	46.74	0.23	0.982	0.187					557				Level 3
CC106303	38.14	0.23	0.798	0.505					633				Level 3
CC106304	37.13	0.23	0.836	0.528					635				Level 3
CC106305	61.46	0.24	0.775	-0.276					482				Level 2
CC106306	44.83	0.24	0.223	0.706					856				Level 4
CC106307	14.41	0.15	0.799	1.060	-1.054	1.054			671	729			Level 4
CC102101	47.97	0.23	0.896	0.188					563				Level 3
CC102102C	54.27	0.19	1.003	-0.001	0.092	-0.092			463	571			Level 3
CC103101	84.35	0.17	1.254	-0.847					341				Level 1
CC103102	31.19	0.21	0.875	0.772					679				Level 4
CC103103	52.87	0.23	1.106	-0.060					502				Level 2
CC103104	64.75	0.22	1.728	-0.191					458				Level 2
CC103105	69.99	0.21	1.266	-0.420					425				Level 1
CC103106	78.68	0.21	0.497	-1.479					286				Below Level 1
CC103107	63.98	0.22	1.828	-0.182					458				Level 2
CC103108C	66.08	0.16	0.699	-0.286	-0.116	0.583	-0.562	0.096	302	406	511	574	Level 3
CC102201	32.40	0.21	0.874	0.721					670				Level 4
CC102202	34.73	0.22	0.189	2.219					1200				Level 4
CC102203	48.33	0.23	0.437	0.198					631				Level 3
CC102204	48.38	0.23	1.094	0.149					544				Level 3
CC102205	27.32	0.20	0.544	1.231					809				Level 4
CC102206	58.50	0.23	1.372	-0.064					491				Level 2
CC102207	36.47	0.23	1.796	0.389					571				Level 3
CC102209C	51.87	0.20	0.689	0.082	-0.865	0.220	0.645		424	530	567		Level 3
CC102212	28.96	0.21	0.273	2.299					1123				Level 4
CC102213	53.80	0.23	1.591	0.024					503				Level 2
CC103201	72.41	0.21	0.681	-0.723					404				Level 1

[Part 6/6]

Table A.6 PISA 2015 main survey CPS item classification

| Item ID in analysis output | International % correct | International % correct S.E. | Item parameters (RP = 0.50) | | | | | | Thresholds (RP = .62) | | | | Level |
			Slope	Difficulty	Step 1	Step 2	Step 3	Step 4	1	2	3	4	
CC103202	73.80	0.20	1.600	-0.405					418				Level 1
CC103203	49.65	0.24	1.522	0.122					524				Level 2
CC103204	63.14	0.23	1.705	-0.139					469				Level 2
CC103205	63.66	0.22	0.902	-0.266					473				Level 2
CC103206	60.77	0.23	1.878	-0.089					475				Level 2
CC103207	84.71	0.17	0.802	-1.267					284				Below Level 1
CC103209	80.04	0.18	1.382	-0.632					380				Level 1
CC103210	72.23	0.21	1.165	-0.463					420				Level 1
CC103211	69.94	0.21	1.377	-0.390					427				Level 1
CC103301	56.32	0.23	2.001	-0.011					489				Level 2
CC103302	55.70	0.23	0.384	-0.275					556				Level 3
CC103303	47.53	0.24	1.025	0.138					545				Level 3
CC103304	70.28	0.22	1.782	-0.301					435				Level 1
CC103305	64.03	0.23	1.936	-0.158					461				Level 2
CC103306	53.44	0.24	1.630	0.040					505				Level 2
CC103307	73.57	0.21	0.905	-0.620					403				Level 1
CC103308	39.64	0.23	1.456	0.341					569				Level 3
CC103309	68.99	0.22	1.740	-0.301					436				Level 1
CC100101	80.24	0.18	0.743	-1.146					314				Below Level 1
CC100102	54.45	0.22	1.350	-0.012					502				Level 2
CC100103	59.23	0.22	0.863	-0.293					471				Level 2
CC100104	50.79	0.22	1.161	0.063					524				Level 2
CC100105	68.00	0.21	1.071	-0.415					434				Level 1
CC105101	57.75	0.21	0.891	-0.118	-0.632	0.632			440	503			Level 2
CC105102	57.41	0.23	0.457	-0.328					522				Level 2
CC105103C	61.34	0.21	0.709	-0.234	-0.625	0.625			417	505			Level 2
CC105105C	49.61	0.18	1.086	0.088	0.392	-0.392			480	622			Level 3
CC105108C	8.80	0.12	0.255	3.261	-3.254	3.254			1105	1287			Level 4
CC100201	41.65	0.21	0.953	0.383					598				Level 3
CC100202	78.07	0.19	1.403	-0.622					381				Level 1
CC100203	54.78	0.22	0.327	-0.503					537				Level 2
CC105201C	49.90	0.21	0.848	0.102	-0.756	0.756			483	545			Level 3
CC105203C	39.44	0.17	0.751	0.375	-0.301	0.623	-0.322		459	593	706		Level 4
CC105205	58.24	0.12	1.097	-0.301	1.106	-1.106			565	674			Level 4
CC105206	71.67	0.22	1.197	-0.518					408				Level 1
CC105207	16.64	0.15	0.538	1.446	-0.319	0.319			747	899			Level 4
CC105208C	70.31	0.20	0.645	-0.414	-0.673	-2.441	3.113		339	440	444		Level 2
CC105211	44.26	0.23	1.167	0.203					551				Level 3
CC105212C	32.06	0.15	0.296	1.639	1.344	-1.344			785	1292			Level 4
CC105214	38.97	0.22	0.909	0.397					603				Level 3
CC100301	75.21	0.19	0.934	-0.846					357				Level 1
CC100302	16.89	0.17	0.497	2.109					992				Level 4
CC105301	44.55	0.23	1.551	0.137					526				Level 2
CC105302	74.88	0.20	0.788	-0.823					373				Level 1
CC105303	9.18	0.14	0.361	3.893					1386				Level 4
CC105304C	45.44	0.23	1.170	0.184					547				Level 3
CC105306	62.98	0.23	1.666	-0.206					456				Level 2
CC105307	31.90	0.20	0.771	0.512	-0.693	0.693			563	639			Level 3
CC105308C	34.13	0.19	0.638	0.566	-2.192	2.330	-0.138		493	620	723		Level 4
CC100401	34.33	0.23	0.527	0.814					730				Level 4
CC100402	51.42	0.23	0.475	0.058					593				Level 3
CC105401	33.85	0.24	0.513	0.997					769				Level 4
CC105402	47.73	0.24	0.729	0.143					569				Level 3
CC105403	17.93	0.19	0.322	2.847					1199				Level 4
CC105404	65.66	0.23	1.377	-0.317					442				Level 2
CC105406	87.48	0.16	0.765	-1.545					233				Below Level 1
CC105407	27.15	0.22	0.485	1.348					845				Level 4
CC105408C	39.73	0.20	0.568	0.395	-0.257	0.257			540	688			Level 4