Exhibit 11.2: Example International Item Statistics for a TIMSS 2015 Constructed Response Item

Trends in International Mathematics and Science Study International Item Review Statistics (Unweighted)	ics and tics (Un	Science	Study -	TIMSS 20	15 Asse	TIMSS 2015 Assessment Results	esults .	- 8th Grade	ade										
Science: Biology / Knowing (814_04 Label: Stomach tissue and function	1	8062101)	Type: Cl	CR 2 Poi	Points														
Country	           	DIFF	DISC	P_0_	Per P 1	Percentages	Б ОМ	P NR	PB_0	Point PB_1	Biserials PB_2 PB_	als PB_OM	PB_NR	RDIFF	N Re	Reliability Score Co	tty	Flags	
*Australia Rahrain	1455	59.0	0.59	16.5	41.6	38.2	3.7	0.2	-0.40	-0.08	0.49	-0.26	-0.05	-0.57	317	99.1	98.7		
Botswana (9)	850			48.7	35.5		4.4	0.0				-0.16		0.17	210	95.2	95.2		
*Canada	1245	52.5		22.1	43.6		3.6	0.2	-0.34			-0.24	-0.06	-0.10	1 220	95.9	95.5		
	069			27.8	32.7		10.6	0.3					0.02	-0.35	181	96.1	96.1	ı	
*Chinese Taipei	821			o. 0	32.2		0.7	0.0						-0.59	220	98.5	98.5	Eu li	_
EGYPt *Fra1erd	PITT		0.44	0.00	ZI.I		D	4.0	-0.26	0.33			20.02	0.35	203	0.60	98.0	AE.	
Georgia	576			0.67	27.4		10.3	.0				-0.28	-0.07	-0.92	206	97.6	97.6		
*Hong Kong SAB	540			13.7	34.0		0.7	0.0					60.0-	-0.70	194	100.0	100.0		
*Hundarv	682	64.7	0.59	16.6	34.3		1.6	0.0						-0.61	190	98.4	98.4		
*Iran, Islamic Rep. of	879		0.54	35.7	37.1		7.1	0.2					-0.08	-0.10	214	99.5	99.5		
	089			16.4	40.7		3.5	0.3					-0.04	-0.47	1 247	98.4	98.4		
*Israel	1 790	47.2		30.8	32.5		5.7	0.6				-0.26	-0.11	0.11	195	98.5	98.5		
*Italy	648			23.5	41.8		4.8	0.0						-0.31	199	0.96	0.96		
*Japan	1 671		0.53	11.0	29.0		1.0	0.1		-0.18		-0.20	-0.12	-0.63	213	100.0	100.0		
*Jordan	1133			56.7	28.9	8.6	5.9	0.0		0.30	0.29			0.43	209	99.2	97.1	AF	
	704			30.2	25.8		8.0	0.3		0.05			-0.05	0.02	221	86.0	86.0		٠.
*Korea, Rep. of	1 762		0.55	18.4	26.0		6.0	0.0		-0.11				-0.51	1 267	96.3	95.9		•••
Kuwait	1 661	21.1		50.3	22.2		17.5	1.4					-0.02	0.30	188	6.76	97.3	Ēų	
Lebanon	1 542			44.4	28.2		16.2	1.8	-0.28				-0.11	0.15	192	93.8	92.7	A	
*Lithuania	621			18.2	34.1		6.3	0.0				-0.29		-0.44	197	100.0	100.0		_
*Malaysia	1383			37.5	38.4		3.5	0.0				-0.22		0.47	231	99.1	98.7		
Malta	1 540	39.8	09.0	37.8	36.3	21.7	4.3	0.0	-0.50		0.43	-0.23		0.07	1 210	91.0	91.0		
*Morocco	1899			57.2	24.9		10.8	0.3					0.01	0.12	1 206	95.1	91.7	[±4	_
*New Zealand	1149			22.4	39.0		9.8	0.2					90.0-	-0.27	204	0.66	0.66		_
Norway (9)	999	57.0		25.5	24.8		5.1	0.3	-0.40				-0.02	-0.49	229	97.4	97.4		
Oman	1282			46.6	29.7		0.0	n.0					-0.06	0.22	223	97.4	96.5		•
Vatar	200				00°00°00°00°00°00°00°00°00°00°00°00°00°		4.						- /0.0-	97.0	727	7.86	2.00		
Gandi arakia	000	0.67		7.6	r c		1.0					77.0		-0.00	190	100.0	r u		_
*Singabore	875		0.57	0.00	33.4		0.0	0.0				-0.17		-0-13	218	96.8	8.96		
*Slovenia	1 605		0.59	17.2	26.3	54.0	2.5	0.0			0.57	-0.24		-0.41	211	100.0	100.0		
South Africa (9)	1787	18.7	0.55	57.2	24.8		11.7	0.2				-0.16	0.01	0.12	194	95.9	92.8	ĪΞI	
	1 582		0.51	31.0	35.6		3.8	0.2				-0.16	-0.10	0.09	199	95.5	95.5		
*Thailand	929		0.53	21.4	42.6		10.1	0.1		0.08		-0.31	0.02	-0.58	1 207	100.0	100.0		
*Turkey	865	29.8	0.48	46.1	39.8	6.6	4.2	0.0	-0.38	0.26		-0.18		0.81	173	98.3	98.3	[E4	_
United Arab Emirates	2574		0.59	43.1	29.4	19.4	8.0	0.2		0.23	0.45	-0.27	0.01	0.28	722	96.4	96.4		_
*United States	1457	59.8	0.53	18.0	40.0	39.8	2.2	0.2		-0.11	0.46	-0.16	-0.04	-0.35	215	99.1	99.1		_
*Reference Avg (n=25)	1 22773	1		24.4	35.0	36.5	4.1	0.1	ŀ			1	-0.06	-0.25	1 5413	98.2	97.9		
Avg	36076	46.7	0.54	31.2	32.8	30.3	5.7	0.3	-0.38	90.0	0.43	-0.23	-0.05	-0.15	8846	97.2	8.96		
	1 0 8 8	1		1 0	1 -			-	1			1	1 0		-			-	
Duenos Alles, Algentina Ontario, Canada	440	55.7	0.00	20.0	41.0		3.6			-0.03			90.0-	-0.30	104	94.4	94.4		
Quebec, Canada	565			24.2	46.9	25.6	. w	0.4	-0.35	0.06	0.36	-0.19	-0.07	0.22	06	97.8	96.7		_
Norway (8)	689			24.7	27.3		9.9	0.6		90.0-			-0.11	-0.61	231	95.2	94.8		
Abu Dhabi, UAE	069	24.6		47.5	25.7		15.1	0.1		0.30			0.04	0.43	1 227	0.96	0.96		_
Dubai, UAE	871			31.5	34.3		3.4	0.1		0.13			-00.0-	0.13	279	8.16	8.76		_
Florida, US	291		0.61	22.1	35.3		3.5	0.7		-0.13			-0.02	-0.35	- 52	96.2	96.2		_
Keys: DIFF= Percent correct score; DISC= Item discr	re; DISC	= Item	discrimi	mination; P_0P_2= Percentage obtaining &	0 P	2= Percel	ntage ok	otaining			P_OM, P_NR= F	NR= Per	NR= Percentage Or	Omitted,	Not Read	Reached;			
PB_0PB_2= Point Biserials for score level; Reliability: N= Responses double scored; Score	als for double	score .	Score=	PB_OM, PB_NR= Point Biseri == Percentage agreement on	R= Poin e agreel	t Biseri nent on :	als for Omitt score; Code=	Omitted Code= Pe		Not Reached; R entage agreeme	DIFF= F	Rasch d code.	ifficult	.Y.					
Flags: A= Point Biserials not ordered; C= Difficulty	co (perep.	= Diffi	culty le	ss than c	hance;	D= Negat.	Negative/low	discr	discrimination;	E= Easi	Easier than a	than average;							
F= Score obtained by less than 10%; H=	than 10	%; H= 1	Harder th	than average;	<u>В</u> =	Scoring re	reliability	ity less	than 85	<i>ا</i>	fficult	ty greater	ter than	95%.					_
																			1

