

Exhibit 1.11: TIMSS Advanced 2015 Achievement Items by Cognitive Domain and Item Format

Cognitive Domain	Multiple-Choice Items		Constructed Response Items		Total Items	Percentage of Score Points
	Four Response Options	Compound	1 Point	2 Points		
Advanced Mathematics Items						
Knowing	25 (25)	2 (4)	5 (5)	1 (2)	33 (36)	29%
Applying	22 (22)		8 (8)	10 (20)	40 (50)	41%
Reasoning	9 (9)	1 (2)	12 (12)	7 (14)	29 (37)	30%
Total	56 (56)	3 (6)	25 (25)	18 (36)	102 (123)	
Achieved Percentage of Score Points	50%		50%			
Target Percentage of Score Points	50%		50%			
Physics Items						
Knowing	24 (24)		6 (6)	1 (2)	31 (32)	27%
Applying	17 (17)	1 (1)	15 (15)	9 (18)	42 (51)	44%
Reasoning	19 (19)		7 (7)	4 (8)	30 (34)	29%
Total	60 (60)	1 (1)	28 (28)	14 (28)	103 (117)	
Achieved Percentage of Score Points	52%		48%			
Target Percentage of Score Points	50%		50%			

Score points are shown in parentheses.

Because percentages are rounded to the nearest whole number, some totals may appear inconsistent.