

**Exhibit 1.10: TIMSS Advanced 2015 Achievement Items by Content Domain and Item Format**

Content Domain	Multiple-Choice Items		Constructed Response Items		Total Items	Percentage of Score Points
	Four Response Options	Compound	1 Point	2 Points		
<b>Advanced Mathematics Items</b>						
Algebra	18 (18)	1 (2)	13 (13)	5 (10)	37 (43)	35%
Calculus	19 (19)	2 (4)	5 (5)	8 (16)	34 (44)	36%
Geometry	19 (19)		7 (7)	5 (10)	31 (36)	29%
<b>Total</b>	<b>56 (56)</b>	<b>3 (6)</b>	<b>25 (25)</b>	<b>18 (36)</b>	<b>102 (123)</b>	
<b>Achieved Percentage of Score Points</b>	<b>50%</b>		<b>50%</b>			
<b>Target Percentage of Score Points</b>	<b>50%</b>		<b>50%</b>			
<b>Physics Items</b>						
Mechanics and Thermodynamics	24 (24)		8 (8)	8 (16)	40 (48)	41%
Electricity and Magnetism	17 (17)	1 (1)	7 (7)	3 (6)	28 (31)	26%
Wave Phenomena and Atomic/Nuclear Physics	19 (19)		13 (13)	3 (6)	35 (38)	33%
<b>Total</b>	<b>60 (60)</b>	<b>1 (1)</b>	<b>28 (28)</b>	<b>14 (28)</b>	<b>103 (117)</b>	
<b>Achieved Percentage of Score Points</b>	<b>52%</b>		<b>48%</b>			
<b>Target Percentage of Score Points</b>	<b>50%</b>		<b>50%</b>			

Score points are shown in parentheses.

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