

**Appendix PB.1: Distribution of Items Included in the Physics Assessment  
by Content Domain, Cognitive Domain, and Item Format**

Physics Items	Multiple-Choice Items	Constructed Response Items	Total Items	Percentage of Score Points
<b>Content Domain</b>				
Mechanics and Thermodynamics	24 (24)	16 (24)	40 (48)	41%
Electricity and Magnetism	18 (18)	10 (13)	28 (31)	26%
Wave Phenomena and Atomic/Nuclear Physics	19 (19)	16 (19)	35 (38)	33%
<b>Total</b>	<b>61 (61)</b>	<b>42 (56)</b>	<b>103 (117)</b>	<b>100%</b>
Percentage of Score Points	52%	48%		
<b>Cognitive Domain</b>				
Knowing	24 (24)	7 (8)	31 (32)	27%
Applying	18 (18)	24 (33)	42 (51)	44%
Reasoning	19 (19)	11 (15)	30 (34)	29%
<b>Total</b>	<b>61 (61)</b>	<b>42 (56)</b>	<b>103 (117)</b>	<b>100%</b>
Percentage of Score Points	52%	48%		

Score points are shown in parentheses.  
Because of rounding some results may appear inconsistent.

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS Advanced 2015