EIEA TIMS 2019

Low International Benchmark

Summary 400

Students show limited understanding of scientific concepts and limited knowledge of foundational science facts.

Students at this level can recognize that some animals have backbones, that some materials conduct heat better than others, and that water and soil are natural resources.

SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2019 Downloaded from http://timss2019.org/download



EXAMPLE A TIMSS & PIRLS International Study Center Lynch School of Education BOSTON COLLEGE

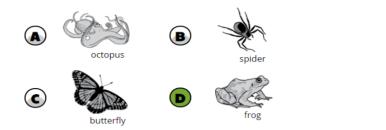
Exhibit 2.10.1: Low International Benchmark of Science Achievement – Example Item 1

Science • Grade 4

EA		
TIMSS		
2019		

Country	Percent Correct
Hungary ² Latvia	89 (1.6) 88 (1.6)
Croatia	88 (1.6) ▲ 87 (1.6) ▲
Korea, Rep. of	87 (1.6)
Albania	86 (2.5)
Armenia	85 (1.7)
Chinese Taipei	85 (1.4)
² Slovak Republic	84 (1.7)
[†] Norway (5)	83 (2.0)
¹ Georgia	83 (1.8)
2† United States	83 (2.1) ▲ 82 (1.2) ▲
² Serbia	82 (1.2)
Poland	81 (1.6)
Bosnia and Herzegovina	81 (1.7)
² Turkey (5)	81 (1.8)
Czech Republic	81 (1.9)
North Macedonia	81 (2.1)
² Russian Federation	80 (1.9)
Japan	80 (1.5)
† Denmark	79 (2.0) ▲
Malta Finland	<u>79 (1.7)</u> 79 (1.7) ▲
Sweden	79 (1.7)
Australia	78 (1.7)
² New Zealand	78 (1.8)
¹² Canada	78 (1.5)
² Kazakhstan	77 (1.8)
² England	77 (2.4)
France	76 (2.0)
Azerbaijan	76 (2.0)
Northern Ireland	76 (2.0)
Ireland	76 (2.1)
Montenegro Cyprus	75 (1.7) 75 (1.8)
² Lithuania	74 (2.0)
International Average	74 (0.3)
Morocco	74 (1.7)
² Kosovo	74 (1.8)
[†] Hong Kong SAR	74 (2.3)
Germany	73 (2.0)
Italy	73 (2.2)
Oman	73 (2.0)
Austria United Arab Emirates	72 (2.2) 72 (1.0) ▽
³ Singapore	72 (1.5)
Spain	71 (2.7)
Qatar	70 (2.2) ▽
Chile	67 (2.1) ∇
Bahrain	67 (1.8) 🗸
Iran, Islamic Rep. of	64 (2.1) \bigtriangledown
Kuwait	61 (2.6) \bigtriangledown
² Pakistan	<u>61 (3.2)</u> ▽
² Saudi Arabia ² Portugal	<u>61 (1.8)</u> ∇ 60 (2.3) ∇
2 Portugal South Africa (5)	<u>60 (2.3)</u> ∇ 58 (1.6) ∇
² Philippines	56 (2.5) ▽
† Belgium (Flemish)	35 (2.1) ▽
⁼ Netherlands	27 (2.4) ▽
Benchmarking Participants	, /
Moscow City, Russian Fed.	79 (1.7)
² Ontario, Canada	79 (2.1)
² Dubai, UAE	78 (1.9)
Quebec, Canada	73 (2.6)
Madrid, Spain	69 (2.4) \bigtriangledown
Abu Dhabi, UAE	66 (1.6) \bigtriangledown

Content Domain: Life Science			
Cognitive Domain: Knowing			
Description: Recognizes an animal that has a backbone			
Which animal has a backbone?			



Percent significantly higher than international average

 $\bigtriangledown\,\,$ Percent significantly lower than international average

See Appendix B.2 for population coverage notes 1, 2, and 3. See Appendix B.5 for sampling guidelines and sampling participation notes †, ‡, and ≡. () Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

