

TIMSS
2015

TIMSS 2015

TIMSS Advanced 2015

Data Collected, Reporting Underway

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Executive Directors

TIMSS & PIRLS International Study Center

Boston College

56th IEA General Assembly
October 2015, Mexico City

TIMSS
Advanced
2015



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Since last General Assembly...

Two major accomplishments for TIMSS and TIMSS Advanced

- **Data collection completed**
 - Southern Hemisphere Oct-Dec
 - Northern Hemisphere Mar-Jun
- **International Reports underway**



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Countries Participating in TIMSS and TIMSS Advanced 2015

Armenia 4, 8
Australia 4, 8
Bahrain 4, N, 8
Belgium(Flemish) 4
Botswana 9
Bulgaria 4
Canada 4, 8
Chile 4, 8
Chinese Taipei 4, 8
Croatia 4
Cyprus 4
Czech Republic 4
Denmark 4
Egypt 8
England 4, 8
Finland 4
France 4, A
Georgia 4, 8
Germany 4
Hong Kong SAR 4, 8
Hungary 4, 8
Indonesia 4, N
Iran, Islamic Rep. of 4, N, 8
Ireland 4, 8
Israel 8

Italy 4, 8, A
Japan 4, 8
Jordan N, 8
Kazakhstan 4, 8
Korea, Rep. of 4, 8
Kuwait 4, N, 8
Lebanon 8, A
Lithuania 4, 8
Malaysia 8
Malta 8
Morocco 4, N, 8
Netherlands 4
New Zealand 4, 8
Northern Ireland 4
Norway 4, 8, A
Oman 4, 8
Poland 4
Portugal 4, A
Qatar 4, 8
Russian Federation 4, 8, A
Saudi Arabia 4, 8
Serbia 4
Singapore 4, 8
Slovak Republic 4
Slovenia 4, 8, A

South Africa N, 9
Spain 4
Sweden 4, 8, A
Thailand 8
Turkey 4, 8
United Arab Emirates 4, 8
United States 4, 8, A

Benchmarking Participants

Buenos Aires, Argentina 4, N, 8
Ontario, Canada 4, 8
Quebec, Canada 4, 8
Norway, younger grade
Abu Dhabi, UAE 4, 8
Dubai, UAE 4, 8
Florida, USA 4, 8

4: TIMSS 4th grade

N: TIMSS Numeracy 4th grade

8: TIMSS 8th grade

A: TIMSS Advanced final grade

Survey Operations

- Survey Operations Procedures Units developed and posted
 - Contacting schools and sampling classes
 - Preparing assessment instruments
 - Scoring constructed response items
 - Creating data files
- IEA DPC conducted Data Management Seminar
 - 45 participants from 31 countries, Sep 2014

Conducted Scoring Training

- TIMSS scoring training
 - Southern Hemisphere countries in Wellington, New Zealand, Nov 2014
 - Northern Hemisphere countries in Prague, Czech Republic, Mar 2015
- TIMSS Advanced scoring training
 - Prague, Czech Republic, Mar 2015

Sampling and Instrument Preparation

- Statistics Canada, assisted by IEA DPC, completed sample selection for all countries
- IEA Secretariat worked closely with countries to verify translations of achievement booklets and context questionnaires
 - Arabic source versions of TIMSS achievement booklets and questionnaires
- TIMSS & PIRLS International Study Center reviewed layout of final assessment materials

Completed International Quality Control Program

- TIMSS & PIRLS ISC and IEA Secretariat conducted International Quality Control Program
 - Trained Monitors for Southern Hemisphere, Sep 2014
 - Trained Monitors for Northern Hemisphere, Jan 2014
- TIMSS Monitors in 54 countries and 5 benchmarking entities
 - 750 4th grade sessions observed
 - 650 8th grade sessions observed
- TIMSS Advanced Monitors in 9 countries
 - 215 sessions observed

Data Processing

- Data submitted to IEA DPC
 - Southern Hemisphere March 2015
 - Northern Hemisphere September 2015
- Quality checks for 130 assessment populations
 - 75 currently at DPC (420,000 students)
 - 16 completed and sent to TIMSS & PIRLS International Study Center

Planning the International Reports

- *TIMSS 2015 International Results in Mathematics*
 - 4th grade, including Numeracy
 - 8th grade
- *TIMSS 2015 International Results in Science*
 - 4th grade
 - 8th grade
- *TIMSS Advanced 2015 International Results in Advanced Mathematics and Physics*

International Reports

TIMSS 2015 International Results in Mathematics

TIMSS 2015 International Results in Science

TIMSS Advanced 2015 International Results in Advanced Mathematics and Physics

- International student achievement in mathematics/science
- Performance at International Benchmarks
- Achievement in content and cognitive domains
- Home support for learning
- School resources
- School climate
- Teachers ready to teach
- Classroom instruction
- System organization and curriculum (only TIMSS Adv.)

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TIMSS and TIMSS Advanced 2015 Online Publications

- *TIMSS 2015 Encyclopedia*
 - Country-level data gathered through the Curriculum Questionnaire
 - Individual chapters submitted by each participating country
- *Methods and Procedures in TIMSS 2015*
 - Documents technical aspects of developing, conducting, analyzing, and reporting the assessments
- *Methods and Procedures in TIMSS Advanced 2015 (separate publication)*



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Joint TIMSS/TIMSS Advanced NRC Review December 2015 - Lisbon

- Complete set of draft exhibits
 - TIMSS 2015 International Mathematics Results (≈ 170)
 - TIMSS 2015 International Science Results (≈ 170)
 - TIMSS Advanced 2015 International Advanced Mathematics and Physics Results (≈ 150)
- Context questionnaire exhibits include data for review – home, school, teacher, student
- Draft Encyclopedia exhibits, with curriculum data

Joint TIMSS/TIMSS Advanced NRC Review June 2016 – Quebec City

- Final drafts
 - TIMSS 2015 International Mathematics Results
 - TIMSS 2015 International Science Results
 - TIMSS Advanced 2015 International Advanced Mathematics and Physics Results
- Confidential preview at next General Assembly

Schedule for International Reports

TIMSS 2015 Encyclopedia

- September 2016

TIMSS and TIMSS Advanced 2015 International Results

Release November 29, 2016

Methods and Procedures (Technical Reports)

- Ongoing November 2015 through December 2016

TIMSS and TIMSS Advanced 2015 International Databases

- February 2017

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Thank You!

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