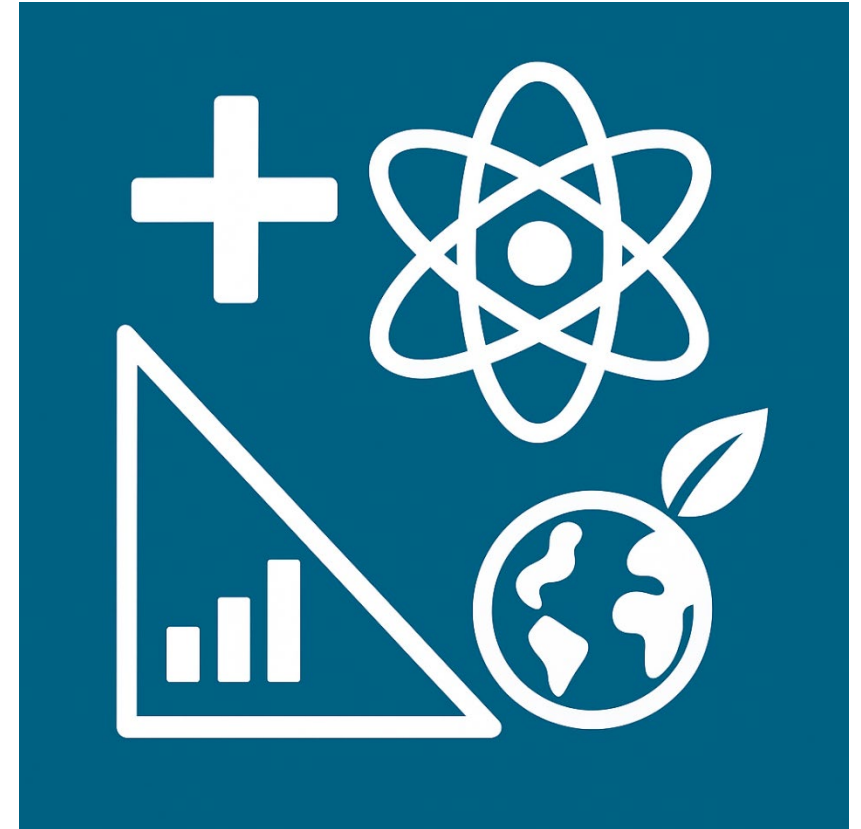


Progress Report

Matthias von Davier & Ann Kennedy
TIMSS & PIRLS International Study Center

IEA General Assembly
October 2025



Mathematics Achievement in the Primary School Years: IEA's Third International Mathematics and Science Report

This report presents mathematics achievement results for students in the two grades with the largest proportion of 9-year-olds — the third and fourth grades in most countries — across 26 countries. Special emphasis is placed on the fourth-grade results, including selected information about students' background and classroom practices in teaching mathematics. Comparisons with achievement at the eighth-grade are also presented.



[The complete Report](#) . **Notice**, this file is 1.3 MB and is not recommended for users using slower modem speeds. See below for specific topics of interest.



[click here for a chapter by chapter section, table, and figure listing](#)

The report is also available in smaller files, divided by chapter as listed below. These PDF files contain bookmarks to aid in navigation in Acrobat.



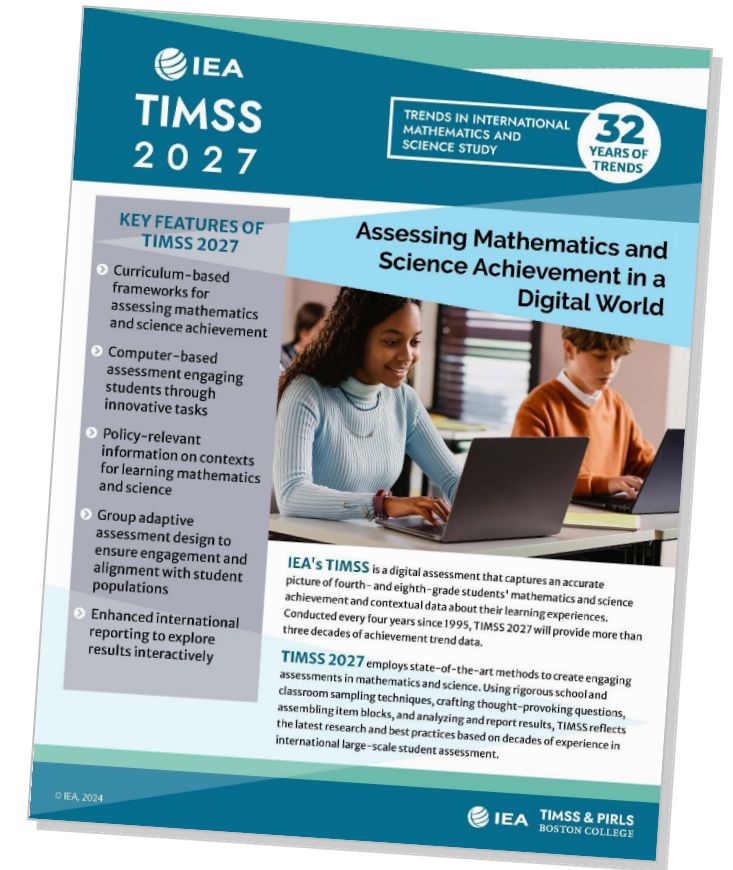
The Mathematics Achievement in the Primary School Years was released in June 1998 and written by Ina V.S. Mullis, Michael O. Martin, Albert E. Beaton, Eugenio J. Gonzalez, Dana L. Kelly, and Teresa A. Smith.



TIMSS 2027

IEA's Trends in International Mathematics and Science Study

- The ninth cycle of TIMSS
- Fully digital assessment
- 64 countries and 3 benchmarking entities confirmed
- Field test in 2026
- Main data collection in 2027
- Report with international results in 2028



TIMSS 2027 Participants

Albania

Armenia

Australia

Azerbaijan

Bahrain

Belgium (Flemish)

Belgium (French)

Bulgaria

Canada

Chile

Chinese Taipei

Croatia

Cyprus

Czech Republic

Denmark

England

Finland

France

Georgia

Germany

Hong Kong

Hungary

Iran, Islamic Rep. of

Iraq (8)

Ireland

Israel (8)

Italy

Ivory Coast

Japan

Jordan (8)

Kazakhstan

Korea, Rep. of

Kuwait

Latvia

Lithuania

Macao SAR

Malaysia

Malta

Montenegro

Morocco

Netherlands

New Zealand

North Macedonia

Northern Ireland

Norway

Oman

Palestine (8)

Poland

Portugal

Qatar

Saudi Arabia

Scotland

Serbia

Singapore

Slovak Republic

Slovenia

South Africa

Spain

Sweden

Türkiye

United Arab Emirates

United States

Uzbekistan

Wales

Benchmarking Participants

Abu Dhabi, UAE

Dubai, UAE

Sharjah, UAE

Countries in **bold** participate at Grades 4 and 8. Countries participating at Grade 8 only are identified with (8).

Innovations in TIMSS 2027



2027 Frameworks expand mathematics and science coverage



Understanding students' learning contexts



Improved adaptive design for diverse populations



Modern assessment methods for development and scoring



Sharper focus on research with the TIMSS Insights series

Activities and accomplishments since Sept 2024



TIMSS 2023 Insights



Updating the *TIMSS 2027 Assessment Frameworks*



Developing the field test instruments and
release of field test instruments



Preparing for the field test (translations and
national adaptations, review and testing of
national players, sampling, survey operations)



TIMSS 2023 Insights Reports

- *Environmental Awareness in TIMSS 2023: Patterns in Achievement, Behaviors, and Contexts*
- Released in June 2025
- Explores relationships between environmental knowledge and contextual variables of interest, as well as patterns in environmental attitudes and behaviors



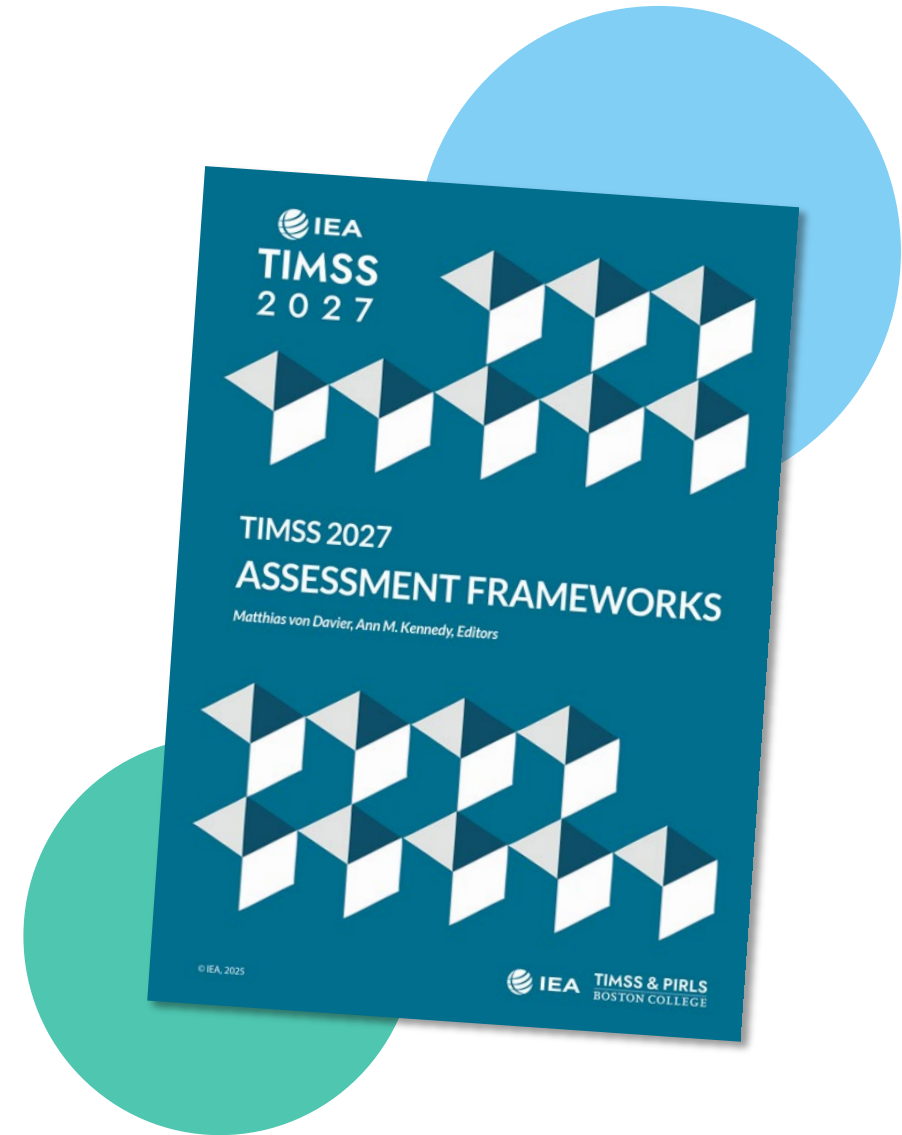
Key takeaways from the report

- Patterns in environmental knowledge differences between girls and boys differ from those observed in overall science for both fourth and eight grades.
- Fourth-grade students whose parents rarely encouraged environmentally responsible attitudes and behaviors had lower expected achievement than those whose parents provide at least some encouragement.
- Teachers' reported classroom practices that emphasize environmental sustainability show a limited relationship with students' environmental knowledge in both grades.



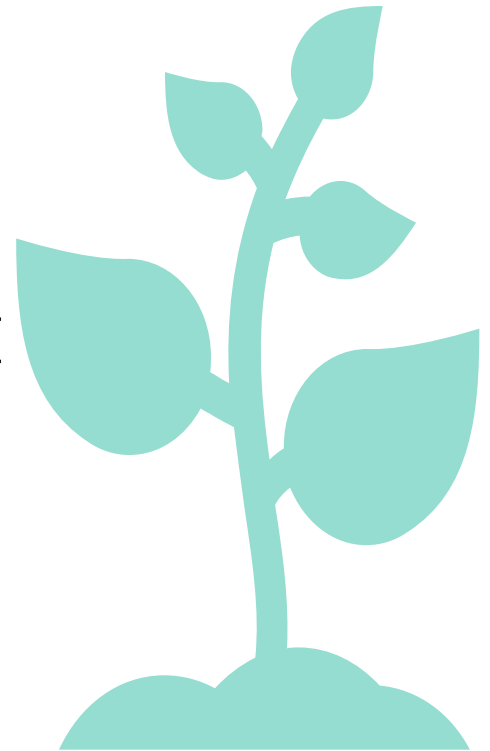
TIMSS 2027 Assessment Frameworks

- Published on September 9, 2025
- Updated to reflect current educational priorities while maintaining trend measurement
- Incorporates problem-solving and inquiry tasks (PSIs)
- Emphasizes real-world applications
- Expands coverage of environmental knowledge



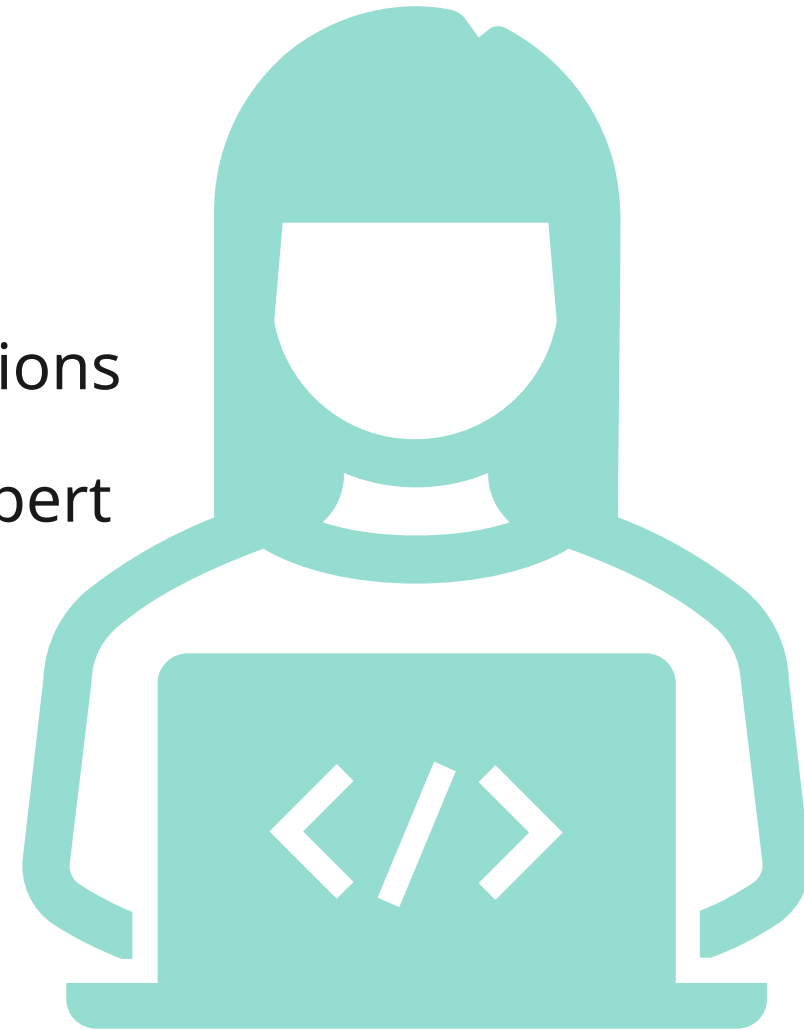
Field test instrument development

- Over 600 new achievement items developed and authored in the assessment platform
- Emphasize complex, interactive formats capture students' problem-solving approaches and inquiry processes
- Greater proportion of automatically scored items
- New questionnaire items include use of digital devices and AI tools, family involvement in learning, and school leadership practices (field testing 20 new scales)
- Field test instruments released for translation/adaptation September 18, 2025



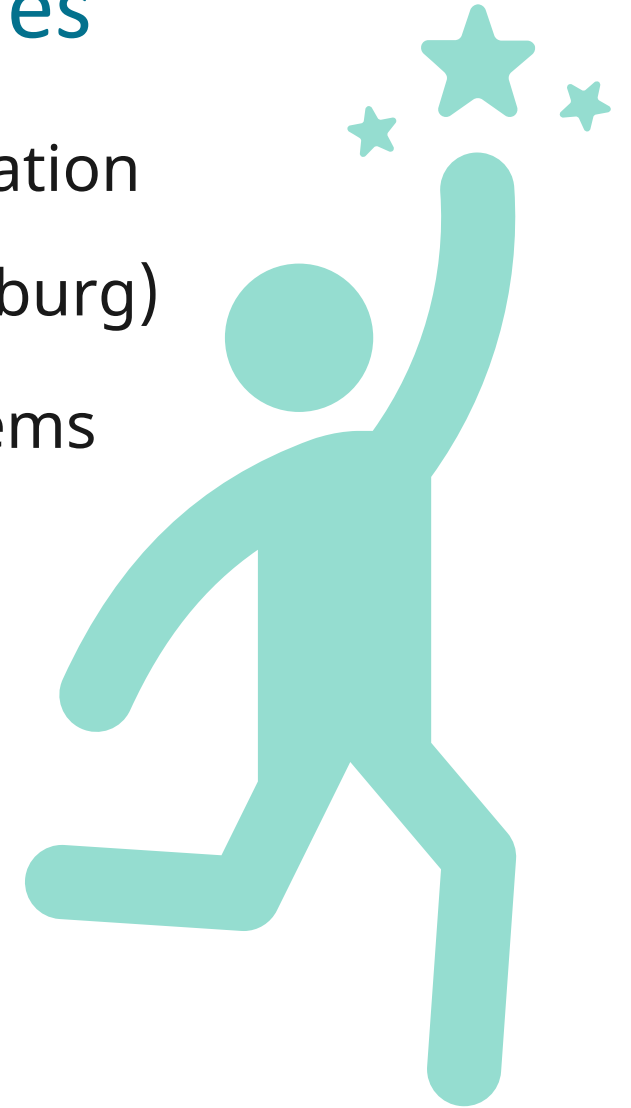
Assessment platform and software development

- Achievement tests built in RM's Assessment Master
 - Updates to test functionality and data capture
 - Release to countries for translation and adaptations
- Questionnaires built and delivered in IEA's StudyExpert
 - Refined based on positive experiences with the PIRLS 2026 Field Test



Upcoming activities, meetings, and milestones

- **September 19, 2025:** Countries begin translation/adaptation
- **October 15–17, 2025:** Data Management Seminar (Hamburg)
- **Oct-Dec 2025:** Item pilot for student responses to CR items using International player (English)
- **Jan-Mar 2026:** TIMSS & PIRLS ISC begins testing and releasing national players on a rolling basis
- **March 2026:** 4th NRC Meeting (online): conduct scoring training for field test
- **March–April 2026:** TIMSS 2027 Field Test (all countries)



Upcoming activities, meetings, and milestones

- **May–June 2026:** Field Test data processing and analysis
- **July 2026:** Field Test data review; recommendation of items for main data collection (DC); 3rd SMIRC and QIRC meetings (online); trend items provided to countries for review (new translations for new participants)
- **August 23-28, 2026:** 5th NRC Meeting (in person, TBD) to finalize data collection instruments
- **October 8, 2026:** Release of data collection instruments and international players; countries make final necessary updates to translations/national adaptations



Thank you!

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October 2025

