LaNA

Literacy and Numeracy Assessment

Internationally comparable, nationally representative data to inform system-wide improvements.

What is LaNA?

IEA's LaNA is an international assessment of emerging mathematics and reading comprehension skills at the end of primary school. Grounded in and linked to IEA's globally recognized TIMSS and PIRLS*, LaNA reports student proficiency across multiple international benchmarks, enabling countries to monitor progress toward SDG 4.1.1b.

Why LaNA?

LaNA was developed to support countries in need of reliable, nationally representative, and internationally comparable data on educational quality and opportunity. It is designed to align with a variety of different educational contexts, enabling valid measurement of students' emerging mathematics and reading comprehension skills. LaNA provides actionable data to guide evidence-informed decisions and strengthens national capacity in assessment planning, implementation, and data use.

Designed with flexibility in mind, LaNA features:

- Paper-and-pencil format with only multiple-choice items, keeping operational burden and cost to a minimum
- Flexible scheduling: Countries decide when to administer LaNA
- Customizable content to address national needs: Countries can add national modules or questions to context questionnaires

Countries participating in LaNA join a global community using large-scale assessments to inform educational improvement.

**TIMSS (Trends in International Mathematics and Science Study) & PIRLS (Progress in International Reading Literacy Study)*

> *"LaNA provides us with globally comparable education indicators about primary education that we did not have before. LaNA data will inform policies regarding contexts, inputs, processes, and outputs of our education system and help engineer successful reading and mathematics outcomes for our students. Moreover, LaNA contributes valuable opportunities for the national team to develop their skills through full engagement in all activities of the study, and to apply these skills to national and subnational learning assessments."*
>
> **Dr. Mohammed Matar Mustafa**
> National Research Coordinator,
> Palestinian National Authority

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PARTNERS

LaNA has been developed by the TIMSS & PIRLS International Study Center at Boston College's Lynch School of Education and Human Development and is implemented in partnership with IEA.

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IEA LaNA

LaNA data can be used to help answer key questions about education quality and opportunity, such as:

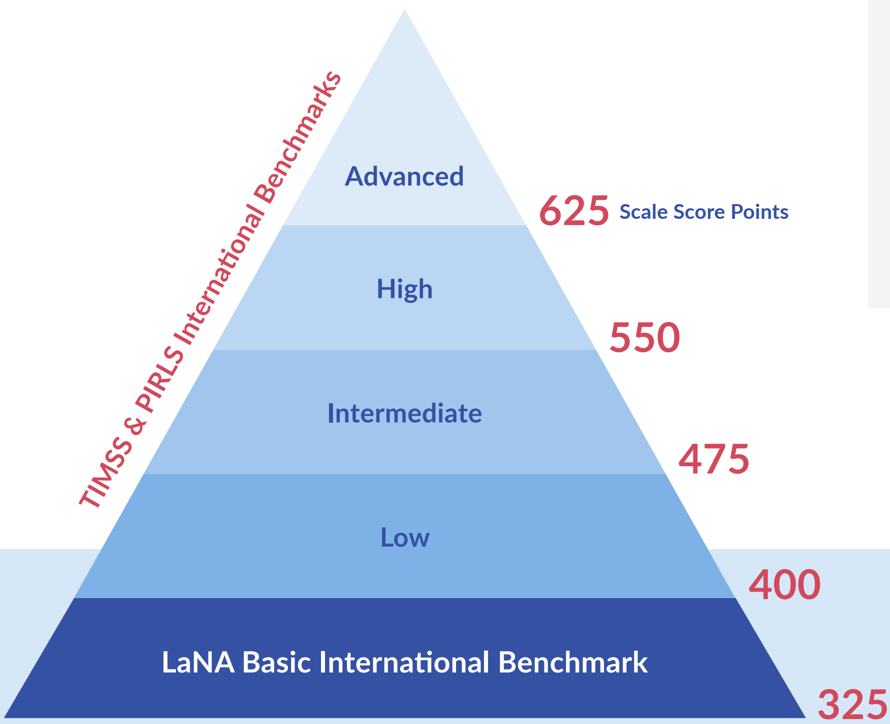
- What proportion of students reach minimum proficiency?
- Are there equity gaps in learning outcomes by gender, school location, or other characteristics?
- How does student achievement compare to that in other countries?
- What school and home factors are associated with higher levels of student proficiency?

What Are the Technical Standards of LaNA?

LaNA is guided by technical standards established for TIMSS, PIRLS, and other IEA studies. Standards pertaining to sampling, translation and instrument quality, standardized data collection, data management, and psychometric methods ensure that countries' LaNA results are valid, reliable, and internationally comparable.

SDG Indicator 4.1.1b

LaNA provides estimates of the percentages of students reaching the TIMSS and PIRLS International Benchmarks (Low, Intermediate, High, and Advanced) and the new LaNA Basic Benchmarks. With multiple internationally comparable benchmarks, LaNA provides valuable diagnostic information about student proficiency and data for SDG Indicator 4.1.1b.



Grade Level
End of primary school; depending on the educational context, fourth, fifth, or sixth grade.

Frameworks
Rooted in the TIMSS mathematics and PIRLS reading frameworks, tailored to educational contexts of target countries.

Assessment Design
Rotated booklet design—each student responds to a subset of questions from the total item pool—ensures LaNA comprehensively measures reading and mathematics domains.

Mathematics Assessment
- Number (whole numbers and fractions), measurement and geometry, data
- Total of 80 items; each student responds to 40

Reading Assessment
- Reading for literary experience and reading to acquire and use information
- Total of 5 text passages with 10-11 items each; each student reads 2 passages and responds to items

Format
Paper-based booklets, multiple-choice items.

Student Testing Time
80 minutes (40 per subject).

School and Home Learning Conditions
- Student context questionnaire
- School context questionnaire
- Teacher context questionnaire (optional)

Sample Size
4,500 students, 150 schools.

Project Timeline
15-18 months, project initiation to reporting.

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LaNA International Participation Fee and Optional Capacity-Building Modules

In addition to the core international participation fee, participating countries are required to cover national costs associated with implementing LaNA. Total national costs will depend on individual country circumstances and cost structures. Countries can also opt for additional capacity-building modules.

Core Program

- Trainings and hands-on practice in assessment implementation (sampling, standardized data collection and operations, data management)
- Internationally-developed assessment and questionnaires
- Centralized translation of instruments
- Support with sample selection and preparation
- Software, manuals, and training required to implement assessment operations
- Data processing, weighting, and analysis
- Open-access database, technical documentation, and analysis software
- Results report

US$185,000 per country

(US$150,000 if more than one country participates in LaNA on the same assessment schedule)

Optional Capacity Building Module

Project Initialization and Management

Technical support to initiate and equip national teams with practical guidance and tools to effectively manage a large-scale assessment. Recommended for countries without experience implementing a cross-national assessment.

US$40,000

Optional Capacity Building Module

National Questionnaire Development

Technical support to strengthen national contextual data collection through customized context questionnaire items.

US$30,000

Optional Capacity Building Module

Policy Brief Development

Online training and support in the development of a concise, targeted document to communicate LaNA key findings and policy implications.

US$22,000

Optional Capacity Building Module

Secondary Analysis with LaNA Data

On-site workshop to equip national teams with practical skills for analyzing LaNA data.

US$20,000

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