

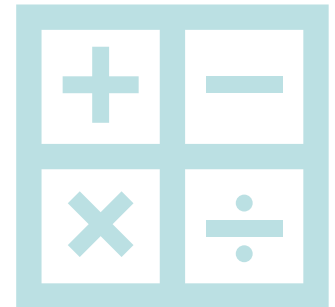
LaNA Linking Study

Progress Report



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IEA General Assembly

September 30, 2024

LaNA is a Literacy and Numeracy Assessment for countries where TIMSS and PIRLS may be too difficult

- Intended as a first step to participation in PIRLS and TIMSS
- Guided by the PIRLS 2021 Reading Framework and the TIMSS 2019 Mathematics Framework
- Provides countries with data that help to target the UN's SDG 4, which aims to “ensure inclusive and equitable quality education and promote lifelong learning opportunities for all”

The **LaNA Linking Study** aims to

- Establish the LaNA scale and scale metric
- Link to TIMSS mathematics and PIRLS reading achievement scales
- Explore the creation of a new 'Basic' International Benchmark to describe student achievement at the lower end of the scales



The current design and item selection for the achievement booklets is based on prior pilot studies in 5 countries

Participating Countries

Burkina Faso

Egypt

Nigeria

Pakistan

Palestine

Senegal



The LaNA Linking Study design



Half of the students in a classroom receive a LaNA booklet;
the other half receive a linking booklet (equivalent groups design)

Assessment Booklets		Part 1		Part 2	
LaNA Booklets	Booklet 1	N1	N2	L0_common	L1
	Booklet 2	L0_common	L2	N2	N3
	Booklet 3	N3	N4	L0_common	L3
	Booklet 4	L0_common	L4	N4	N1
LaNA Linking Booklets	Booklet 5	NL1	NL2	LL1	
	Booklet 6	LL2		NL2	NL3
	Booklet 7	NL3	NL4	LL3	
	Booklet 8	LL4		NL4	NL1

Practice Administration (PA): Administration



Conducted April–May 2023



Main goal: Prepare countries for Main Data Collection



Based on 2 achievement booklets (1 LaNA, 1 Linking)
and 2 questionnaires (Student and School)

Practice Administration (PA): Results

Classical item statistics indicated that the achievement difficulties are **well-targeted** for the students in the grade level selected within each participating country



Main Data Collection (DC): Administration



Conducted November–December 2023



Based on 8 achievement booklets (4 LaNA, 4 linking) and 2 questionnaires (Student and School)



The targeted minimum sample size is 4,500 students from at least 100 sampled schools

Main Data Collection (DC): Updates



Psychometric analysis (including classical item statistics, IRT scaling, and population modeling) were completed in August 2024



Scale anchoring is expected to be completed in September and draft exhibits for reporting in October 2024



The *LaNA Linking Study Report* has an expected publication date of February 2025

Achievement: Preliminary Results (DC)



The LaNA linking blocks are more difficult than the LaNA blocks, which is by design.



The assessment was more difficult for Nigeria and Senegal than for other countries



Overall, the LaNA blocks and the linking blocks work well in all countries



The difficulty and discrimination seem appropriate in all countries for the chosen grades (grade 5 or 6)

Activities, Meetings, & Milestones

- **October–December 2023:** Data collection completed
- **April 2024**
 - The TIMSS & PIRLS International Study Center produced data almanacs with basic item statistics
 - 4th NRC Meeting (online), April 22
- **April–May 2024:** IEA Hamburg produced updated national datasets

Activities, Meetings, & Milestones

- **May 2024**
 - *LaNA Linking Study Report* outline finalized
 - Sampling adjudication held on May 17
 - IEA produced and submitted the final, weighted data to the TIMSS & PIRLS ISC for analysis



Activities, Meetings, & Milestones

- **August 2024:** TIMSS & PIRLS ISC completed psychometric analysis and quality control
- **September 2024:** Scale Anchoring and establishing a new Basic Benchmark for Reading and Mathematics, reviewed by a subset of the TIMSS Science and Mathematics Item Review Committee (SMIRC) and PIRLS Reading Development Group (RDG)



Upcoming Activities, Meetings, & Milestones

- **October 2024:** IEA Hamburg will share the first draft of weighted and scaled national datasets with countries and provide data training.
- **October–December 2024:** TIMSS & PIRLS ISC will produce report exhibits and draft text for the *LaNA Linking Study Report*.
- **January 2025:** 5th NRC meeting (online) to review results and discuss final plans for reporting
- **Late February 2025:** Release event for the international report

Future Plans for LaNA

- Future administrations in one or more countries
- Enhancing the LaNA instruments
 - Measuring SDGs beyond 4.1
 - Expand capacity-building and training activities

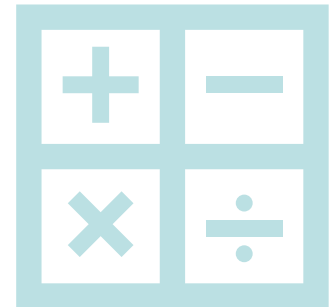


Thank you!



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