

SDG 4 Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

Metadata
Target 4.1 By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes

### 4.1.1 Proportion of children and young people (a) in Grade 2/3; (b) at the end of

 primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex
## Definition

Percentage of children and young people achieving at least a minimum proficiency level (MPL) in (i) reading and (ii) mathematics during primary education (Grade 2 or 3), at the end of primary education, and at the end of lower secondary education.

## Purpose

The indicator aims to measure the percentage of children and young people who have achieved the minimum learning outcomes in reading and mathematics during or at the end of the relevant stages of education.

## Calculation method

The number of children and/or young people at the relevant stage of education $n$ in year $t$ achieving or exceeding the pre-defined proficiency level in subject $s$ expressed as a percentage of the number of children and/or young people at stage of education $n$, in year $t$, in any proficiency level in subject s.

$$
M P L_{t, n, s}=\frac{M P_{t, n, s}}{P_{t, n}}
$$

where:
$\mathbf{M P}_{\mathbf{t}, \mathrm{n}, \mathbf{s}}=$ the number of children and young people at stage of education $n$, in year $t$, who have achieved or exceeded the minimum proficiency level in subject s.
$\mathbf{P t}, \mathbf{n}=$ the total number of children and young people at stage of education $n$, in year t
$\mathbf{n}=$ the stage of education that was assessed
$\mathbf{s}=$ the subject that was assessed (reading or mathematics).

### 4.1.1 Proportion of children and young people (a) in Grade 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex

## Interpretation

The higher the value of the indicator, the higher the proportion of children or young adults who have acquired the minimum level of meaningful competencies.

## Type of data source

The sources of data are:
i. International assessments
ii. Regional assessments
iii. National assessments data collected through the Catalogue of Learning Assessments (CLA) and/or available in national reports
iv. Population-based assessments:
a. Early Grade Reading Assessment (EGRA) and Early Grade Mathematics Assessment (EGMA)
b. UNICEF Multiple Indicator Cluster Surveys (MICS)
c. People's Action for Learning (PAL) NETWORK (e.g. Annual Status of Education Report (ASER), UWEZO, etc.)
When the results are not nationally representative, a footnote should be added to the data point.

## Disaggregation

Indicator is published disaggregated by sex and completion status (Global Indicator 4.1.2).
Other disaggregation such as location, socio-economic status, immigrant status, ethnicity and language of the test at home are based on data produced by international organizations administering cross learning assessment. Parity indexes are estimated in the reporting of Indicator 4.5.1. Information on the disaggregation of variable for Indicator 4.1.1 are presented in the tables in Annex I.
4.1.1 Proportion of children and young people (a) in Grade 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex

As indicated in the metadata of SDG indicator 4.1.2, the completion rate can be used in combination with SDG indicator 4.1.1 to provide information on the percentage of children or young people in a cohort who achieve a minimum level of proficiency (MPL), and not only on the percentage of children in school who achieve minimum proficiency. Therefore, to reflect the percentage of all children and/or young people who have achieved the minimum level of proficiency and comply with the commitment to leave no one behind, Indicator 4.1.1 can also be disaggregated by the status of completion. However, the information on the percentage of children and/or young people who have reached minimum proficiency does not tend to be available, even though they have left school before reaching the end of primary and lower secondary education, respectively.
Considering that the emphasis of Target 4.1 is to ensure that all boys and girls 'complete ... education leading to relevant and effective learning outcomes,' it can be assumed that no children and/or young people who have left school before completing primary or lower secondary education have reached the minimum proficiency level expected at that level of education. As a result, the disaggregation by completion status takes the following form:

## Indicator 4.1.1 disaggregated by completion $\mathbf{t}, \mathrm{n}, \mathrm{s}=$

$$
\text { Indicator 4.1.2 } \mathrm{t}, \mathrm{n} \times \text { Indicator 4.1.1 } \mathrm{t}, \mathrm{n}, \mathrm{~s}
$$

where:
Indicator 4.1.2 $\mathbf{t}_{\mathrm{t}, \mathrm{n}}=$ percentage of a cohort of children or young people aged 3-5 years above the intended age for the last grade of each level of education $\boldsymbol{n}$ who have completed that grade, in year $\boldsymbol{t}$, and achieved or exceeded the minimum proficiency level in subject $\boldsymbol{s}$.
Indicator 4.1.1 $\mathrm{t}, \mathrm{n}, \mathrm{s}=$ proportion of children and young people at stage of education $\boldsymbol{n}$, in year $\boldsymbol{t}$, achieving at least a minimum proficiency level in subject $\boldsymbol{s}$.
$\mathbf{n}=$ the stage of education that was assessed
$\mathbf{s}=$ the subject that was assessed (reading or mathematics).

## Methodological challenges

The indicator faces the following methodological challenges:
i. Define a minimum proficiency level (MPL)
ii. Harmonize various data sources, including non-official data sources
iii. Define how to include non-completers to assess their level of proficiency

## i. Definition of the Minimum Proficiency Levels

A minimum proficiency level (MPL) is the benchmark of basic knowledge in a domain (mathematics, reading, etc.) measured through learning assessments. The minimum proficiency level is measured through the definition agreed in 2018 and was refined in 2020.

To ensure comparability across learning assessments, a verbal definition of MPL for each domain and levels between cross-national assessments (CNAs) was established by
4.1.1 Proportion of children and young people (a) in Grade 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex
conducting an analysis of the performance level descriptors (PLDs) of cross-national, regional, and community-led tests in reading and mathematics. The analysis was led and completed by the UIS and a consensus among experts on the proposed methodology was deemed adequate and pragmatic.

The global MPL definitions for the domains of reading and mathematics are presented in Table 1.

Table 1. Minimum proficiency levels defined by each learning assessment

| Educational <br> Level | Descriptor |
| :--- | :--- |
| Reading |  |
| Grade 2 | They read and comprehend most of written words, particularly <br> familiar ones, and extract explicit information from sentences. |
| Grade 3 | Students read aloud written words accurately and fluently. They <br> understand the overall meaning of sentences and short texts. <br> Students identify the texts' topic |
| Grades 4 \& 6 | Students interpret and give some explanations about the main and <br> secondary ideas in different types of texts. They establish <br> connections between main ideas on a text and their personal <br> experiences as well as general knowledge. |
| Grades 8 \& 9 | Students establish connections between main ideas on different text <br> types and the author's intentions. They reflect and draw conclusions <br> based on the text. |
| Grades 2-3 | Students demonstrate skills in number sense and computation, <br> shape recognition and spatial orientation. |
| Grades 4-6 | Students demonstrate skills in number sense and computation, <br> basic measurement, reading, interpreting, and constructing graphs, <br> spatial orientation, and number patterns. |
| Grades 8 \& 9 | Students demonstrate skills in computation, application problems, <br> matching tables and graphs, and making use of algebraic <br> representations. |

## ii. Harmonization of data sources

To address the challenges posed by the limited capacity of some countries to implement cross-national, regional, and national assessments, actions have been taken by the UIS and its partners. The UIS has proposed some options to link assessments together; one of these strategies is the Rosetta Stone, a subject-based psychometric linking approach (new data
4.1.1 Proportion of children and young people (a) in Grade 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex
collection). The second one is the Policy linking approach, which consists on setting benchmarks, or cut scores, on learning assignments to align them with other assessments across countries or contexts (alignment with existing data).

The objective of the Rosetta Stone is to link together assessments, which have been administered in the recent past, to build concordance tables to compare their outcomes and benchmark national results to those of the regional assessments. This method enables countries to measure Sustainable Development Goal (SDG) 4 Indicator 4.1.1.

The Policy linking method makes use of a standard-setting methodology (the Angoff approach for those familiar with standard setting methodologies), long used in many countries, to set benchmarks (also known as "cut scores" or "thresholds") on learning assessments. While it is an old standard-setting methodology, the UIS and its partners have now extended its use to help countries set benchmarks using the Global Proficiency Framework (GPF) for reading and for mathematics, a framework developed by multilateral donors and partners based on current national content and assessment frameworks across more than 100 countries. The GPF provides performance expectations/standards for learners in Grades 2-9 in reading and mathematics. By linking their national assessments to the GPF, countries and donors are able to compare learning outcomes across language groups in countries as well as across countries and over time, assuming all new assessments are subsequently linked to the GPF. Policy linking allows countries to use their existing national assessments or early grade reading and mathematics assessments to report against Indicator 4.1.1.

It is possible for countries to report on Indicator 4.1.1 using national learning assessments (NLA) provided that they comply with the Protocol for reporting Indicator 4.1.1.

## iii. Completion status

Combining completion rates with learning outcomes improves our understanding of progress towards Target 4.1. Almost all information regarding learning is school-based and does not consider the completion of the level. The inclusion of completion in the global list offers an opportunity to report according to the completion status. The greatest differences between the SDG 4.1.1 on learning before completion and the disaggregation by completion are found in regions or countries with lower completion and enrolment rates (or children completing and learning) because the adjusted indicator is based on a quality-adjusted completion rate. This also explains why the largest differences occur at the lower secondary level. Globally, 47\% of lower secondary students achieve minimum proficiency in reading according to the original SDG 4.1.1 Indicator, but the value for the adjusted indicator would fall to $34 \%$ of adolescents completing lower secondary and achieving minimum proficiency in mathematics. See references here.
4.1.1 Proportion of children and young people (a) in Grade 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex

## Protocol for reporting Indicator 4.1.1

In reporting on Indicator 4.1.1, questions may arise in relation to:

- Which content should be measured and what is the percentage of coverage to be covered by a given assessment to be comparable to other assessments?
- What procedures are good enough to ensure quality of the data collected?
- A proficiency scale where all assessments could be informed (and its conversion function or the linking procedure), and a definition of the minimum level for each domain that would allow the estimation of the percentage of students achieving the minimum proficiency level.
The Protocol for reporting Indicator 4.1.1 intends to provide answers those questions.


## Limitations and comments

Learning outcomes from cross-national learning assessment are directly comparable for all countries which participated in the same cross-national learning assessments. However, these outcomes are not comparable across different cross-national learning assessments or with national learning assessments. A level of comparability of learning outcomes across assessments could be achieved by using different methodologies, each with varying standard errors. The period of 2020-2021 will shed light on the standard errors' size for these methodologies.

The comparability of learning outcomes over time has additional complications, which require, ideally, to design and implement a set of comparable items as anchors in advance. Methodological developments are underway to address comparability of assessments outcomes over time.
4.1.1 Proportion of children and young people (a) in Grade 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex

ANNEXI

| Sex |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Assessment | Definition | Metrics | Categories | Item and component description | Parity index (API) | Relevant link |
| PISA | Sex of students | Nominal | 2 | Are you female or male? | Female Male | https://www.oecd.org/pi sa/data/CY6_QST_MS_ST Q_CBA_Final.pdf |
| PIRLS TIMSS | Sex of students | Nominal | 2 | Are you a girl or a boy? | Girls Boys | https://timssandpirls.bc. edu/timss2015/question naires/downloads/T15_S tuQ_4.pdfhttps://timssa ndpirls.bc.edu/pirls2016 /questionnaires/downlo ads/P16_StuQ.pdf |
| LLECE | Sex of students | Nominal | 2 | Usted es niño o niña? | Niña <br> Niño | https://unesdoc.unesco. org/ark:/48223/pf00002 43533 |
| PASEC | Sex of students | Nominal | 2 | Are you a girl or a boy? | Fille <br> Garçon | http://www.pasec.confe men.org/wp- <br> content/uploads/2016/0 <br> 3/PASEC_2014_CADRE_R <br> EFERENCE_QUESTIONNA <br> IRE_VF.pdf |
| SACMEQ | Sex of students | Nominal | 2 | What is your sex? | Female Male | http://www.sacmeq.org/ sites/default/files/sacme q/training-modules/sacmeq-training-module-8.pdf |
| PILNA <br> EGRA <br> EGMA, <br> MICS | Sex of students | Nominal | 2 | Are you a girl or a boy? | Girls Boys |  |

4.1.1 Proportion of children and young people (a) in Grade 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex

| Location |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Assessment | Definition | Metrics | Categories | Item and component description | Parity index (API) | Relevant link |
| PILRS TIMSS | School location declared by the principal | Nominal | 5 | Which best describes the immediate area in which your school is located? Urban-Densely populated, Suburban-on fringe or outskirts of urban area, Medium size city or large town, Small town or village, remote rural | Remote rural Urban Densely populated | https://timssandpirls.b c.edu/pirls2016/questi onnaires/downloads/P 16_SchQ.pdf http://timssandpirls.bc. edu/timss2015/questio nnaires/downloads/T1 5_SchQ_4.pdf |
| PISA | School location declared by the principal | Nominal | 5 | Which of the following definitions best describes the community in which your school is located? A village, hamlet or rural area (fewer than 3.000 people), A small town (3.000 to about 15.000 people), A town (15.000 to about 100.000 people); A city (100.000 to about 1.000.000 people); A large city (over 1.000.000 people) | Rural area City | https://www.oecd.org/ pisa/data/2018databas e/CY7_201710_QST_MS _SCQ_NoNotes_final.p df |
| PASEC | School location declared by the principal | Nominal | 4 | Votre école est située dans.? <br> Une ville, Une banlieue de grande ville, Un grand village (plusieurs centaines de concessions), Un petit village (plusieurs dizaines de concessions) | Un petit <br> village <br> Une ville | http://www.pasec.conf emen.org/wp- <br> content/uploads/2016/ 03/PASEC_2014_CADRE _REFERENCE_QUESTIO NNAIRE_VF.pdf |

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| Location |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LLECE | School location declared by the principal | Nominal | 5 | Su escuela se encuentra en una localidad de: <br> 2.000 habitantes o menos, Entre 2.001 y 5.000 habitantes, entre 5.001 y 10.000 habitantes, entre 10.001 y 100.000 habitantes, más de 100.000 habitantes | Rural/urban | https://unesdoc.unesc o.org/ark:/48223/pf000 0243533 |
| SACMEQ | School location declared by the principal | Nominal | 5 | Which of the following best describes the location of your school? <br> Isolated, Rural, In or near a small town, in or near a large town or city | Rural/Urban (city) | http://www.sacmeq.or g/sites/default/files/sac meq/training-modules/sacmeq-training-module-8.pdf; http://www.sacmeq.or g/sites/default/files/sac meq/reports/sacmeq-iii/workingdocuments/wd01_sac meq_iii_results_pupil_a chievement.pdf |
| EGMA EGRA | School location declared by the principal | Nominal | 2 | Is this considered an urban or a rural school? Urban, Rural |  |  |

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Socio-Economic Status

| Assessment | Definition | Metrics | Categories | Item and component description | Parity index (API) | Relevant link |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PISA | Index of Economic, Social and Cultural Status (ESCS) <br> In PISA, a student's socio-economic status is estimated by the PISA index of economic, social and cultural status (ESCS), which is derived from several variables related to students' family background: parents' education, parents' occupations, a number of home possessions that can be taken as proxies for material wealth, and the number of books and other educational resources available in the home. | Quartiles | Bottom <br> quarter, <br> Second <br> quarter, <br> Third <br> quarter <br> Top quarter | The ESCS is a composite score built by three components: the indicators parental education in years (PARED), Highest parental occupational status (HISEI), and home possessions (HOMEPOS) via a proxy measure for family wealth that includes ( 25 items): availability of countryspecific household for example, such as a subscription to a daily newspaper, an MP3 player, Internet connection at home, the number of books at home, a computer or specific educational software. | Bottom quarter, Top quarter | Technical report PISA 2015 - Chapter 16: https://www.oecd.org/p isa/data/2015-technicalreport/PISA2015_TechR ep_Final.pdf <br> Pisa Result 2018, volume II Chapter 2: http://www.oecd.org/pu blications/pisa-2018-results-volume-ii-b5fd1b8f-en.htm |

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Socio-Economic Status

| LLECE | Indice de nivel <br> socioeconómico de los estudiantes <br> INSE is constructed from the information of the complementary questionnaires of parents or guardians. INSE is composed of the variables related to the mother's educational and work history, household income, housing goods and services, and the amount of books available. | Quartiles | Low quarter, Second quarter, Third quarter, High quarter | ¿Cuál es el nivel educativo más alto que la madre del estudiante ha completado? Si la madre trabaja, señale aquella labor que más se parezca al trabajo que generalmente realiza; En un mes normal, ¿en cuál de los siguientes rangos se encuentra actualmente el ingreso total líquido del hogar donde vive el niño? ¿De qué material es la mayor parte de los pisos de su vivienda? ¿Cuenta con alguno de los siguientes servicios en su hogar? ¿Cuántos de los siguientes bienes tiene en su hogar? ¿Cuántos libros hay en la casa del niño? Considere todos los tipos de libro: poesía, novelas, diccionarios, libros de estudio, etc. | Low quarter/High quarter | Informe de resultados <br> TERCE: Factores asociados. See: https://unesdoc.unesco. org/ark:/48223/pf00002 43533 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

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| Socio-Economic Status |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Assessment | Definition | Metrics | Categories | Item and component description | Parity index (API) | Relevant link |
| PASEC | Capital <br> socioéconomique et culturel des familles L'Indice Capital socioéconomique et culturel des familles est construit à partir des réponses du questionnaire complémentaire détenu aux étudiants (résultats non disponibles) | Quintiles | 1 quintile <br> 2 quintile <br> 3 quintile <br> 4 quintile <br> 5 quintile | Variables: Possession de biens matériels, caractéristiques de I'habitation, alphabétisme de la famille, utilisation de la langue d'enseignement et de(s) langue(s) de socialisation, indice socioéconomique | 1 quintile/5 quintile | Cadre de référence des questionnaires contextuels, Voir: <br> https://www.pasec.confemen .org/wp- <br> content/uploads/2016/03/PA SEC_2014_CADRE_REFERENC E_QUESTIONNAIRE_VF.pdf; Rapport PASEC 2014, voir: https://www.confemen.org/w p- <br> content/uploads/2019/05/Ra pportPasec2014_FR_BD1.pdf |
| SAQMEC | Index of the <br> Socioeconomic <br> Status (SES) of pupils <br> The SACMEQ Index of the socioeconomic status (SES) of pupils is derived from five elements that define the pupils' family environment | Quartiles | Low SES <br> (25\%) <br> High SES <br> (75\%) | Components: - the level of education of the father and mother, - the number of books in the home, - the presence of eleven items in the home (a newspaper, a magazine, a radio, a television, a VCR, an audio cassette player, a telephone, a refrigerator, a car, running water and a table), - the structural quality of the house (floor, outside walls and roof), - the main source of light, determining whether or not pupils can read. | Bottom quarter Top quarter | See: <br> http://www.sacmeq.org/sites /default/files/sacmeq/reports /sacmeq-iii/workingdocuments/wd01_sacmeq_iii _results_pupil_achievement.p df; <br> http://www.sacmeq.org/sites /default/files/sacmeq/researc h/Papers\%20from\%20the\%2 02005\%20International\%20In vitational\%20Educational\%20 Policy\%20Research\%20Confe rence/dolata.pdf |

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| Immigration Status |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Assessment | Definition | Metrics | Categories | Item and component description | Parity index (API) | Relevant link |
| PIRLS TIMSS | Status declared by Students | Nominal | Country specific | 1. Were you born (country)? <br> 2. Was your child born in (country of test)? If, No, how old was your child when he/she came to (country od test) Younger than 3 years old, 3 to 5 years old, 6 to 7 years old, 8 years old or older. | No <br> Yes <br> (native born) | http://timssandpirls.bc .edu/timss2015/questi onnaires/downloads/T 15_StuQ_IntSc_8.pdf |
| PISA | Status declared by Students | Nominal | Country specific | In what country were you and your parents born? You, Mother and Father | Immigrant <br> Non- <br> immigrant | https://www.oecd.org/ pisa/data/2018databas e/CY7_201710_QST_M S_STQ_NoNotes_final. pdf |
| ERCE | Status declared by Students | Nominal | Country specific | ¿Naciste en este país? Si no naciste en este país ¿ qué edad tenías cuando llegaste? | Migrante No migrante | https://unesdoc.unesc o.org/ark:/48223/pf00 00243533 |
| PIACC | Status declared by respondents | Nominal | Country specific | Were you born in (country) in what country were you born? At what age or in which year did you first immigrant to (country)? | Foreign-born/Nativeborn | https://www.oecd.org/ skills/piaac/publication s/PIAAC_Technical_Rep ort_2019.pdf |
| PASEC | Le statut est directement reporté par les élèves avec l'appui de l'enquêteur | Nominal | Country specific | Were you born in (country) in what country were you born? | No <br> Yes <br> (native born) | http://www.pasec.conf emen.org/wpcontent/uploads/2016/ 03/PASEC_2014_CADR E_REFERENCE_QUESTI ONNAIRE_VF.pdf |

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| Language of test at home |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Assessment | Definition | Metrics | Categories | Item and component description | Parity index (API) | Relevant link |
| $\begin{aligned} & \text { EGMA } \\ & \text { EGRA } \end{aligned}$ | The main language is declared by the student | Nominal | Country specific | Do you speak the same language at home as you speak at school? |  |  |
| PASEC | The main language is declared by the student | Nominal | Country specific | Quelle langue parles-tu chez toi? |  | http://www.pasec.confemen. org/wpcontent/uploads/2016/03/PA SEC_2014_CADRE_REFERENCE _QUESTIONNAIRE_VF.pdf |
| PISA | The main language is declared by the student | Nominal | Country specific | What language do you speak at home of the time? | Students who speak mainly another language at home / Students who speak mainly the test language at home | https://www.oecd.org/pisa/da ta/2018database/CY7_201710 _QST_MS_STQ_NoNotes_final. pdf |
| SACMEQ | The main language is declared by the student | Nominal | 2 | Do you speak English outside school? Yes/No |  | http://www.sacmeq.org/sites/ default/files/sacmeq/training-modules/sacmeq-training-module-8.pdf |
| LLECE | The main language is declared by the student | Nominal | 4 | En tu casa ¿qué idioma hablan la mayor parte del tiempo? Castellano o portugués, lengua extranjera, lengua indígena, otra lengua | Habla lengua de la evaluación No habla lengua de la evaluación | https://unesdoc.unesco.org/a rk:/48223/pf0000243533 |

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ANNEX II

## Acronyms

CAT Content Alignment Tool
CLA Catalogue of Learning Assessments
CNA Cross-national assessments
GAML Global Alliance to Monitoring Learning
GCF Global Content Framework
GPF Global Proficiency Framework
IRT Item response theory
ISCED International Standard Classification of Education
MPL Minimum proficiency level
PAT Procedural Alignment Tool
PLD Performance level descriptors
SDG Sustainable Development Goal
TCG Technical Cooperation Group

## Assessments

| ASER | Annual Status of Education Report |
| :---: | :---: |
| EGRA | Early Grade Reading Assessment |
| EGMA | Early Grade Mathematics Assessment |
| ERCE | Regional Comparative and Explanatory Study |
| LLECE | El Laboratorio Latinoamericano de Evaluación de la Calidad de la Educación |
| MICS | Multiple Indicator Cluster Surveys |
| PAL Network | People's Action for Learning Network |
| PASEC | Programme d'analyse des systèmes éducatifs de la confemen |
| PIACC | Programme for the International Assessment of Adult Competencies |
| PILNA | Pacific Islands Literacy and Numeracy Assessment |
| PIRLS | Progress in International Reading Literacy Study |
| PISA | Programme for International Student Assessment |
| PISA-D | Programme for International Student Assessment for Development |
| SACMEQ | Southern and Eastern Africa Consortium for Monitoring Education Quality |
| SEAMEO | Southeast Asian Ministers of Education Organization |
| TIMSS | Trends in International Mathematics and Science Study |
| UWEZO | (not an acronym) |

