

**METHODOLOGY FOR INTRODUCING INTERNATIONAL EDUCATION  
PROGRAMS (EGMA) AND (EGRA) IN IMPROVING THE PROFESSIONAL  
TRAJECTORY OF FUTURE PRIMARY EDUCATION TEACHERS**

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**Annotation:** This article analyzes the methodology for introducing international educational programs — EGMA (Early Grade Mathematics Assessment) and EGRA (Early Grade Reading Assessment) - in improving the professional development lines of future primary education teachers. Also, the impact of these programs on improving the quality of primary education and ways to adapt them to the national education system will be highlighted.

**Keywords:** educational system, assessment programs, international research, reading strategies, practice.

**Annotatsiya:** Ushbu maqolada bo'lajak boshlang'ich ta'lim o'qituvchilarining kasbiy rivojlanish yo'nalishlarini takomillashtirishda xalqaro ta'lim dasturlari — EGMA (Early Grade Mathematics Assessment) va EGRA (Early Grade Reading Assessment)ni joriy etish metodikasi tahlil qilinadi. Shuningdek, ushbu dasturlarning boshlang'ich ta'lim sifatini oshirishga ta'siri va ularni milliy ta'lim tizimiga moslashtirish yo'llari yoritiladi.

**Kalit so'zlar:** ta'lim tizimi, baholash dasturlari, xalqaro tadqiqot, o'qish strategiyalari, amaliyot.

#### Introduction

Since the modern education system is developing in harmony with global trends, the professional development of primary education teachers also requires constant attention. One of the international educational assessment programs, EGMA and EGRA systems serve to assess the math and reading literacy of elementary school students. The introduction of these programs into the national education system also serves to promote professional competence of primary education teachers.

#### Research methodology.

This research work uses scientific and theoretical research, surveys of professors and students working in the field, scientific work of research scientists on the topic and comparative analysis.

#### Analysis and results discussion.

President of the Republic of Uzbekistan Sh. As Mirziyoyev noted, "we consider it our first-class task to improve the activities of all branches of the educational and educational system on the basis of the requirements of today's times."

On the way to improving the quality and efficiency of education, the study of foreign advanced experiences, the introduction of international standards requirements are important. An example

of the practical steps taken in this regard is the adoption of a government decision on the organization of international research in the field of assessing the quality of education in the public education system, the establishment of cooperation relations with a prestigious organization, such as the International Association for the assessment of educational achievements (IYEA).

Resolution of the Cabinet of Ministers of December 8, 2018 No. 997 “on the organization of international research in the field of assessment of the quality of education in the public education system” was adopted. In accordance with the resolution, international research on the following international assessment programs was established:

- 1) Progress in International Reading and Literacy Study (PIRLS) - assessment of the level of reading and understanding of text by primary 4th graders;
- 2) Trends in International Mathematics and Science Study (TIMSS) - assessment of the level of assimilation of students in 4th and 8th grades in mathematics and Natural Sciences;
- 3) the Programme for International Student Assessment (PISA) is an assessment of the literacy rate of 15 - year-olds in reading, mathematics and Natural Sciences.

PIRLS (English – Progress in International Reading Literacy Study – an international study that determines the level of reading and understanding of text) the purpose of this international study is to identify and evaluate the specific characteristics of the educational system that cause students to achieve various achievements, as well as the preparation of Primary School students for reading and receiving text in states consisting of In other words, it is a major international assessment program that allows international comparison of data on the extent to which Primary School students have developed reading comprehension skills, providing information on public policy in education to improve reading and teaching.

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#### PIRLS VA ePIRLSda har bir o‘qish maqsadlari va tushunish jarayonlarining ulushi

O‘QISH SAVODXONLIGINING MAQSADI	PIRLS	ePIRLS
Badiiy tajriba orttirish	50%	0%
Axborot olish va undan foydalanish	50%	100%
TUSHUNISH JARAYONI	PIRLS	ePIRLS
Diqqatni jamlash va aniq ko‘rsatilgan ma’lumotlarni topish	20%	20%
To‘g‘ridan to‘g‘ri xulosalar chiqarish	30%	30%
G‘oyalar va axborotni talqin qilish hamda uyg‘unlashtirish	30%	30%
Kontent va matn elementlarini baholash va tanqid qilish	20%	20%

Today, the following international assessment programs are available in our republic:

PIRLS (English – Progress in International Reading Literacy Study – an international study that determines the level of reading and understanding of text) the purpose of this international study is to identify and evaluate the specific characteristics of the educational system that cause students to achieve various achievements, as well as the preparation of Primary School students for reading and receiving text in states consisting of In other words, it is a major international assessment program that allows international comparison of data on the extent to which Primary School students have developed reading comprehension skills, providing information on public policy in education to improve reading and teaching. PIRLS also represents two comprehensive goals that make up the vast majority of schooling by young students, both in and out of school, i.e., the assessment of the skills of gaining artistic experience, obtaining and using information. It can also be said that this program keeps pace with the Times and improves its assessment criteria in accordance with modern requirements. As an example, it is appropriate to say that in a study in 2021, students plan to submit assignments in digital format for the first time. Along with the digital format transition, changes such as computer evaluation of ePIRLS online reading managed in the internet environment are also envisaged. Of course, such research is of great importance for workers in the field of public education, scientists, Methodists, teachers, parents and representatives of the public. PIRLS research is coordinated by the international institutes of Education (IEA). Organized by the IEA - International Association for the Evaluation of Educational Achievement. All responsibility for the organization of the international study lies with Chestnut Hill (Massachusetts, USA) Boston College. Preparation of collars for research is carried out in the data center of Germany (Hamburg). The survey was first conducted in 2001, with the survey taking place every 5 years. PIRLS states that the different countries involved in the study have different ages of admission of schoolchildren to the primary class. In many countries, the school is admitted from the age of six and the fourth grade is completed at the age of 10.5.

### Conclusions and suggestions

International education programs are of great importance in improving the professional trajectory of teachers of primary education. Through the effective implementation of EGMA and EGRA systems, the quality of education can be increased, the professional development of teachers and the literacy of students can be brought to a high level. In the future, it is advisable to carry out research on the implementation of these programs on a larger scale.

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