



IMPORTANCE OF THE TIMSS INTERNATIONAL ASSESSMENT PROGRAM IN ELEMENTARY GRADES

Ashurova Guzalkhan

*Bukhara State Institute of Pedagogy
3rd stage of primary education*

Abstract

This article talks about the content of international assessment programs, the importance of participating in international studies, the TIMSS international assessment program and its content, which subjects it was created to assess, the methods of TIMSS international research, when it was conducted and how many countries participated.

Keywords

international assessment, TIMSS, research, method, education, mathematics, natural science, principle.

Currently, as a result of various reforms implemented in our country, huge economic growth indicators are achieved. For this reason, the demand for qualified and experienced specialists in every field is increasing. It follows that in order to educate our students as educated and mature staff, teachers need to pay special attention to education.

The educational system is important, it is important to study the educational system of foreign countries and adapt it to our own educational system, to train competitive personnel through international evaluation and monitoring to develop the education system.

Today, many countries are developing various new systems of assessment. We can observe that international assessment programs are being used in the field of education in our country. Today, the use and organization of modern assessment programs is important.

On the basis of the decision of the Cabinet of Ministers of the Republic of Uzbekistan “On measures to organize international studies in the field of education quality assessment in the public education system”, the introduction of international studies in Uzbekistan was established. a national center for research implementation was established.

The importance of participation in international research to assess the quality of education is as follows:

The obtained results make it possible to draw conclusions about the quality of education in the country and its place, taking into account international standards;

- ✓ It is used to reform the education system, improve the content of education, training and professional development programs for pedagogues, and create a new generation of textbooks by experts;
- ✓ International research has a positive effect on the quality of national research in the field of education;
- ✓ Enables the creation of a national assessment system based on high standards;
- ✓ The following international assessment programs are available:
 - PIRLS;

- PISA;
- TIMSS;
- TALIS.




These are widely used as criteria to further improve the quality of education in developed countries.

TIMSS - international monitoring of the quality of education in mathematics and natural sciences was organized by the International Association for the Evaluation of Educational Achievements (IEA).

TIMSS is an international program for monitoring the quality of learning mathematics and natural sciences. It is derived from the initials of the English words Trends in International mathematics and science study. It is a program for evaluating the knowledge of students of 4-8th grade in mathematics and natural sciences. In addition, it also provides an opportunity to determine the content of knowledge in mathematics and natural sciences, educational processes, the capabilities of schools, and the knowledge and potential of the teacher. The main goal of the research is to compare the quality of education in mathematics and natural sciences in schools.

The methods of the TIMSS international program are as follows:

Positive test results;

-  Questionnaires;
-  Methodological support;
-  Software.

An important document in the development of TIMSS international methods is “TIMSS Assessment Frameworks and Specifications”.

International tests are developed based on the following principles:

- sufficiently clarify the tested content and types of educational and cognitive activities;
- maximum compliance of the content of international tests with the material studied in most participating countries;
- ensuring interaction of tests;
- the importance of the examined content in terms of the development of mathematics and science education;
- compliance with the age characteristics of the students, evaluation of the achievements of the developed test;
- compliance with the requirements for public research.

The first study of the program was conducted for the first time in 1995 and is conducted every 4 years. Subsequent studies were conducted in 1999, 2003, 2007, 2011, 2015, 2019, and the last study was conducted in 2023.

46 countries of the world participated in the research conducted in 2003. England, Scotland, Northern Ireland, the French-speaking part of Belgium, Hong Kong and Taiwan participated as independent participants due to significant differences in their educational systems.

425,000 students from 45 countries participated in the TIMSS-2007 study.

About 600,000 students in 60 countries of the world participated in the TIMSS-2011 survey. 347 assignments were given to check the knowledge of 4th grade students in mathematics and natural sciences. Of these, 175 were made from mathematics and 172 from natural sciences. The given tasks are formed into 28 blocks and 14 options. 14 options are also prepared for 8th graders, but the number of tasks is more than for 4th graders. That is, 434 tasks, 217 tasks related to mathematics and 217 natural sciences. 4th graders have 72 minutes, and 8th graders have 90 minutes to complete assignments.

57 countries participated in the TIMSS-2023 study. Among them, Uzbekistan participated in this research for the first time.

By participating in TIMSS and other international evaluation studies, Uzbekistan has the opportunity to study the educational system of foreign countries and the educational system of Uzbekistan, to what extent students can compete with foreign students, and to compare their knowledge with the knowledge of foreign countries. will be

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