



WAYS TO DEVELOP CREATIVE THINKING OF PRIMARY SCHOOL STUDENTS USING INTERNATIONAL ASSESSMENT PROGRAMS AND NEW GENERATION TEXTBOOKS

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Article history:	Abstract:
Received: 11 th November 2022 Accepted: 14 th December 2022 Published: 30 th January 2023	We know that it is necessary to attract best practices to improve the quality of education by evaluating and monitoring the development of education and science. This article discusses the international system for assessing the quality of education, international experience in determining, analyzing and implementing the quality of primary education, the role and importance of foreign research in determining the priorities of the national education system and participation in international studies of methods for assessing the quality of primary education.

Keywords: PISA, TIMSS, TALIS, PIRLS, STEAM, use of projects and programs.

INTRODUCTION

The main goals and directions for the development of the Concept for the Development of the Public Education System of the Republic of Uzbekistan until 2030, which is the theoretical basis for the fundamental reform of the education system of the Republic of Uzbekistan, are:

- Creation of "Presidential Schools" with a specialization in STEAM (science, technology, engineering, art and mathematics) in each region of the country in 2019-2021;
- PISA (Program for International Student Assessment), aimed at assessing the level of literacy of students in the field of reading, mathematics and science in order to organize international studies in the field of education quality assessment in the public education system, the creation of a national education quality assessment system;
- Ensuring the regular participation of the Republic of Uzbekistan in international programs and studies to assess the quality of education (PISA, TIMSS, PIRLS, etc.) in assessing the level of knowledge of students in the public education system [1, 3].

MATERIALS AND METHODS

In the 21st century, we are witnessing the emergence and introduction of many new innovative technologies in the global education system. These include television, radio, personal computers, networks, the Internet, mobile communications, satellites, space, and more. Many processes are currently organized using computers and information systems, and opportunities for improving quality and

efficiency are expanding through their use in managerial, production, educational and other processes. It has become a tradition for people to communicate on social networks and various instant messengers. The reforms carried out in our country in recent years have further increased the need for qualified personnel and qualified specialists in all areas. This, in turn, requires increasing the interest of students in the lessons and strengthening their focus on comprehensive learning.

Research in the education system of the Republic of Uzbekistan is aimed at studying international experience in determining, analyzing and implementing the quality of education, the role and significance of foreign research in determining the priorities of the national education system. The application of foreign experience in the education system is one of the most pressing issues today.

RESULTS AND DISCUSSION

What does it mean for Uzbekistan to participate in international studies to assess the quality of education? It will be used to reform the national education system, improve the content of curricula, train and improve the skills of teachers, and create a new generation of textbooks for professionals. The results of the study allow us to draw conclusions about the quality of education in the country and its role, taking into account international standards. International research has a positive impact on the quality of national education research. This makes it possible to create a national assessment system based on high economic efficiency at the level of international standards. Participation in international



research with the involvement of leading experts from various organizations in Uzbekistan will help bring the quality of education assessment in line with international standards. To date, there are a number of international assessment programs that are widely used as criteria for further improving the quality of education in developed countries. Allows the development of control materials in assessing the quality of domestic education at the level of the quality of control materials used in international studies.

Decree of the Cabinet of Ministers of the Republic of Uzbekistan dated December 8, 2018 No. 997 "On measures to organize international research in the field of assessing the quality of education in the public education system" includes: [3].

- make changes and additions to the content of state educational standards, curricula and textbooks in reading, mathematics and natural sciences based on the results of international research;

- Create a national database of questions on the PISA assessment program and integrate it into the curriculum;

- Create a national student literacy assessment system and conduct systematic tests to assess the formation of practical skills in 2019-2021. Decree of the Cabinet of Ministers

No. 997 provides for the establishment of international surveys for the following international assessment programs:

Progress in International Reading and Literacy Study (PIRLS) - to assess the level of reading and understanding of the text by primary school students;

Trends in International Mathematics and Science Study (TIMSS) - to assess the level of knowledge of students in grades 4 and 8 in mathematics and science;

Program for International Student Assessment (PISA) - to assess the literacy of 15-year-old students in reading, math, and science;

The International Study on Teaching and Learning (TALIS) is a study of the teaching and learning environment and working conditions of teachers in general secondary education.

Here is a brief overview of TIMSS, PISA, PIRLS, TALIS and STEAM projects and programs.

TIMSS - Trends in International Studies in Mathematics and Science. International system for monitoring and evaluating the quality of mathematics and natural sciences. This study aims to conduct a comparative study of the level of mastery of students in the 4th grade of basic school and 8th grade of primary school in mathematics and science in different

countries of the world, and according to the results obtained, each of them recognizes the unique features and achievements of the country's education system.

PISA is an international student assessment program.

Assessment in the PISA program is aimed at determining the level of life skills of students, i.e. the ability to apply the knowledge gained in the framework of the school curriculum in real life situations.

Evaluation is the definition of the quality or level of something. Evaluation can also be analyzed as a process in which actual results are compared to planned results. This process is carried out for a specific purpose. Assessment is the process of generating conclusions about a set of knowledge, skills, competencies and characteristics that need to be assessed using an indirect, limited number of specially designed tasks. The set of items used in the assessment process is called a test. A test may consist of one or more test items.

PISA - Program for International Student Assessment - a program that assesses literacy (reading, mathematics, science) and the ability to apply knowledge in 15-year-old students in different countries. This program is held every 3 years. Originally developed in 1997 and first used in 2000. An increase in PISA score by 50 points will provide an annual increase in gross domestic product (GDP) by 1%. The number of countries participating in PISA tests is growing. In 2018, this number increased to 78. PISA tracks the quality of students' knowledge in 5 areas.

The PISA International Assessment Program conducts research using the following tools:

1. A set of tests, consisting of training tasks.
2. Questionnaire for students about the educational institution where they study.
3. Questionnaire for school principals about the educational institution where he works as a teacher.
4. Questionnaire for the head conducting testing, and the questionnaire.
5. Questionnaires for employees of educational authorities.
6. Instructions for compiling test tasks and mathematical and statistical analysis of the results.

These international evaluation programs serve to update the content of the republic's education system, create an innovative educational environment and improve the quality of education.

PIRLS - The Progress in International Reading Literacy Survey is designed to assess the reading and



comprehension skills of 4th grade students. This international program is the basis for successful continuation of reading at the next level of education through understanding of the text, its interpretation, making the right decisions in independent life in the educational process organized in the primary grades.

TALIS - Teaching and Learning International Survey is a 1620 study based on an international comparative analysis of pedagogical processes in different countries and established by the Organization for International Economic Cooperation and Development. Orientation of teachers and heads of educational institutions engaged in pedagogical work at school to the analysis of the educational process, the development of criteria for determining the quality of education in key aspects of educational policy. International Consortium, Association of Teachers, International Cooperation. Analyze written responses to the questionnaire, identify factors that directly affect the quality of education, identify unused resources, prepare presentations, methodological recommendations and reports on them.

STEAM (S-science, T-tech, E-engineering, A-art, M-mathematics) is a modern approach that combines science, technology, engineering, art and mathematics.

CONCLUSION

Such approaches will help solve life problems in children in the future. In many developed countries, including the USA, Japan, Israel, Singapore and Russia, this approach is effectively used to develop the creative and inventive abilities of children in preschool institutions.

The effective use of the international system for assessing the quality of education in Uzbekistan in the teaching of natural sciences will serve to improve the quality and effectiveness of education.

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