

## METHODOLOGY FOR PREPARING PRIMARY CLASS STUDENTS FOR TIMSS INTERNATIONAL ASSESSMENT PROGRAMS

**Raupova Sojida Abduvaitovna**

Teacher of the Theory of Primary Education department of the Termiz State Pedagogical Institute

**Abstract:** The article contains methodical recommendations on the preparation of elementary school students for TIMSS international assessment programs, and general information on the use of international assessment program materials in the course of the lesson.

**Key words:** state education standard, curriculum, international assessment, TIMSS, competence, literacy, methodological aspects.

Participation in international evaluation programs provides an opportunity to compare and learn the educational systems of the countries of the world, and the results serve as a means of improving the quality of education. When talking about the reasons for the success of school education in certain countries, it is not possible to point to a single reason. In a general analysis, it is possible to take into account the education management system, the share of the republican budget allocated to education, the standard of living of the population, national traditions, teaching methods and many other factors. However, one of the important factors is the current content component of school education, which is reflected in state educational standards, curricula and textbooks. In every modern educational program, the main attention is focused on the formation of 21st century competencies of the learner [1].

In recent years, functional literacy has become a hot topic in theoretical research and practice in the teaching of school subjects, and has become one of the priority areas of education modernization. Decision No. 997 of the Cabinet of Ministers of the Republic of Uzbekistan dated December 8, 2018 "On measures to organize international studies in the field of education quality assessment in the public education system" states that "Integrated education based on international assessment programs winter, creating textbooks and educational-methodical complexes used for learning mathematics and natural sciences, developing electronic education for students to learn independently, in which reading, mathematics and creating and enriching the database of questions on international research from natural sciences" is listed as a priority task [2]. From the moment our country started preparing to participate in international studies on the evaluation of the quality of educational results, the relevance of natural science literacy in national education began to be discussed. In TIMSS studies, students' level of mastery of the curriculum is studied and evaluated, for which algorithmic, "sample" tasks are offered to perform certain actions. Creates effective approaches that form the functional literacy component of primary school students in natural sciences.

Special attention should be paid to the following aspects when using international assessment programs in natural sciences among primary school students of general education schools[3]:

- to analyze the experience of scientific research of local and foreign researchers in the formation and development of students' literacy in natural sciences in the modern education system;
- to identify deficiencies in the theory and practice of natural science education and develop recommendations for eliminating existing deficiencies;

- scientific and methodical justification of the relevance of effective use of certain approaches in teaching natural sciences;
- To determine the optimal conditions for the formation of the functional literacy component of students in natural sciences and to test it in the pedagogical experiment-testing process.

Also, when preparing primary school students for TIMSS international assessment programs, it is necessary to integrate the tasks given by them to the topics in the textbook. Here are some examples of these tasks:

**Task 1.** One evening, Anwar went out and drew a house, a tree and the moon. About 2 weeks later, Anwar's brother Akbar came out and drew the same house, tree and moon. When they compared their drawings, they saw that they drew the Moon differently[4].

Which of them drew the Moon correctly? Select one answer (Figure 1).



A picture drawn by Anwar.

A picture drawn by Akbar

Only Anwar's drawing can be correct.

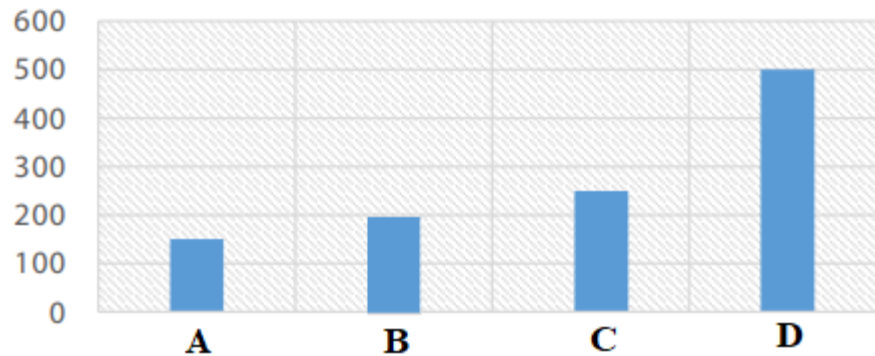
Only Akbar's drawing can be correct.

Both drawings of the moon can be correct.

**Task 2.** The table shows the masses of 4 bears (Table 1).

The bar chart in Figure 2 shows the masses of the bears. Correctly place the letters A, B, C, D in the 4th empty column of the table

T/r	Type of bear	Bear mass,kg	Corresponding column in the diagram (A, B, C, D)
1	Panda	200	
2	Malay	150	
3	Brown	500	
4	Black	250	



by completing the assignment, students expand their knowledge of subjects, increase their ability to apply quantitative concepts in specific situations [5;6].

The results of TIMSS and other international assessment programs are primarily used to monitor educational achievement and, at the same time, to implement new reforms in education in mathematics, science and reading programs. Participation in international evaluation provides access to many ideas and procedures for improving education.

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