

## METHODOLOGY OF USING NEW TEXTBOOKS IN ORGANIZING PEARLS TASKS (AS AN EXAMPLE FROM NATURAL SCIENCE)

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**Abstract:** The article provides information about the international assessment programs that are relevant today, the new 4K model textbooks being created for the formation of young people who can meet the needs of the times, and the results expected from them.

**Key words:** 4k model, student and teacher, international assessment program, new textbooks, natural sciences, integration.

As a result of the reforms implemented in our developing education system, huge economic growth indicators are being achieved, increasing the demand for qualified personnel and mature specialists in all fields. This in itself requires increasing the interest of our students in lessons and increasing the attention of teachers to all-round education. Developed countries consider the role of youth education in the development of society and human development to be important. That is why they pay special attention to the quality of education. At the same time, the concept of quality in the field of education became very popular in our country. Increasing the intellectual potential of the future young generation, forming a broad worldview is important not only for a specific country, but also for the international community. Therefore, with issues such as the quality of education and the assessment of the quality of education, many international organizations have established international standards for the assessment of education in certain applicant countries, such as PIRLS, TIMSS, PISA, TALIS, PIAAC, ICCS, SITES, IALS, ALL. implemented evaluation programs. However, PIRLS is not new for the educational system of Uzbekistan! This research, which is used in practice for elementary school students, is used in the course of lessons in schools in our educational system, and one of our goals is to create immunity for students from the 1st grade within the framework of the research and to perform tasks consciously.[1]

Starting from the new academic year, primary school students will be educated on the basis of new generation textbooks. One of the main features of the textbooks is that they are developed on the basis of the 4K principle. That is, in this principle, it is not limited to memorizing dry information or simply teaching reading/writing. Students learn not only science, but also life skills needed in the 21st century.

What does 4K mean?

Dilshoda Norboyeva, head of the department of the Ministry of Preschool and School Education, gave detailed information about the new principle, which is being used in primary classes.

The 4K approach, as its name implies, includes 4 principles:

1. Collaboration: Textbooks are designed to help students develop teamwork skills. It helps students learn the skills of collaboration, effective communication, and mutual support.
2. Communicativeness: Students learn to express their thoughts clearly and clearly, to listen and understand the interlocutor, to effectively use language tools to convey information.
3. Creative thinking: Students learn to use new approaches to achieve their goals, develop innovative solutions, and acquire creative problem-solving skills.
4. Critical (critical) thinking: This methodology includes the development of students' skills to critically evaluate information, form their own opinions and judgments. Students learn to approach problems from an analytical point of view and form their own point of view based on logical thinking.

Before introducing the new innovative approach in the schools of Uzbekistan, foreign experiences were also studied. Countries with advanced education, such as Singapore, China, England, Finland, and Estonia, focus on developing 21st century skills in students, including the 4K principle.[2]

In the education of countries that have high positions in international rankings such as PISA, PIRLS, special emphasis is placed on communication, research, creativity, which includes "4K" in students, and therefore they achieve great results in international rankings. is reaching

What conditions are needed for the new model to work well?

The innovative approach based on the "4K" model does not require special conditions for use in schools. For example, students develop critical thinking skills through quizzes, and communication skills through quizzes and exercises. It is wrong to say that there are no conditions for using these methods in schools.

What is PISA? — is an international assessment program aimed at assessing the literacy of students in reading, mathematics and natural sciences, and based on its results, the application of knowledge and skills of students in life situations, thinking and aimed at determining communication skills. At the same time, it does not prescribe, promote, or demand universal recognition of any curriculum. PISA results will be announced at the end of 2023. I think this is a very important decision. Countries should participate in international studies, because they are judged externally in terms of international standards, not our internal situation. This is the first one.

Secondly, it is impossible to talk about getting some very good, positive results from the first years. Russia has been participating in international studies since 2000, and our PISA results were below the international average. Only by investing heavily in education for 18 years have our PISA results approached the Organization for Economic Co-operation and Development (OECD) average. How can this be explained? This is explained by the fact that our Russian school (in a sense, the Soviet school) focuses more on the results of science, that is, on providing the young generation with good, deep and long-term knowledge. There was no such need to develop creativity, there was no time to ensure that the acquired knowledge could be used by all students in various life situations.[3]

The direction you take is very important and unlikely to yield high results. But in order to understand them correctly, it is necessary for our colleagues involved in the research to analyze the events happening in the post-Soviet countries well.

For the same purpose, during the webinar, I showed the results of the Republic of Belarus and Kazakhstan. This allows you to see how neighboring countries that previously had a common education system have fared. If you have an understanding



of how the education system is set up in your country, what changes are happening in other countries, you can at least make some predictions about what the results will be and, more importantly, how to prepare people. . These results cannot be compared with Russia. Belarus and Ukraine (especially Belarus), which have done a lot without changing the education system, have achieved comparable results to Russia. But the average international results are still quite low. I explained why: our education system had a different orientation, based on training well-educated engineers. It is very important, but we could not provide the other side.

Therefore, my advice is to achieve the goal step by step, to introduce the announced ideas and reforms. On the other hand, we need to prepare the public and the professional community to discuss the results in detail, what we will do with these results and prepare the country to accept these results as a platform for development. The result of the new innovative approach can be seen in the growth of the student's outlook and thinking. A portrait of a 21st century student should include 21st century skills. This is the main purpose of using an innovative approach. In addition, the main goal of education is not only to give students knowledge, but also to teach them to apply the knowledge they have received in life.

Exactly, the 4K model is the books issued in preparation for the International Assessment Program. When we analyzed the natural science books for grades 1-4, they all included assignments and tasks that reflected the results expected from the international assessment program. In this process, strong pedagogical skills are required from the teacher: methodical guide, organization of exercise books within the framework of research and targeted education with students of the class...

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