

The Role of International Research in Teaching Natural Sciences in Primary Grades

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Abstract: Today, the need to implement large-scale reforms in the field of improving natural science teaching on the basis of multimedia tools, international assessment programs and improving the natural-scientific literacy of students in the classroom is growing. In the UN agreement on education, science and culture "Import of materials of educational, spiritual and cultural content", creating broad conditions for the quality of education of learners worldwide, education It is of particular importance to carry out scientific and research work on the introduction of modern innovative technologies into the glue process. In this regard, achieving efficiency and increasing the role and influence of multimedia tools, conceptual study and analysis of existing problems determine the relevance of the topic.

Keywords: "PISA", "PIRLS", "TIMSS", "nature", "media education", "methods", "educational technologies", "multimedia tools".

It is planned to use international evaluation programs to determine our achievements and weaknesses by comparing the knowledge, skills and qualifications acquired by students in the field of science with the knowledge of students of developed foreign countries. This is where the PISA program is important.

PISA is an international program for assessing the educational achievements of students (PISA in English - Program for International Student Assessment), which measures the literacy (reading, mathematics, natural sciences) and knowledge of students in different countries. is a program that evaluates the ability to perform. This program has been held in different countries since 2000, and every 3 years it tests the knowledge of 15-year-old students in reading literacy, mathematics and natural sciences [1].

Control for the monitoring process (in the preparation of tests, written assignments, questionnaires, oral questions, audio (video) materials up to 20% of their total volume, corresponding to the psychophysiological characteristics of students, in addition to the curriculum and textbooks, in international experiments (PISA, TIMSS, etc.) the possibility of using the materials used is defined in paragraph 4 of the pisa program [2].

What does the evaluation of the quality of education give us; including the results obtained from the researches allow to draw conclusions about the quality of education in the country and its place taking into account international standards, reforming the national education system, the content of education, training and qualification of pedagogues It is used to improve programs and create a new generation of specialists. About 90 countries participate in studies conducted by the International Economic Cooperation Organization. At this point, Uzbekistan will take part in the PISA (15-16-year-old student knowledge assessment) international research for the first time in 2021. Based on the results of this rating, the future development of our country will be assessed. Taking into account the results of this rating by large companies that make long-term

foreign investments, it is possible to understand how important this process is for our developing country [3].

DISCUSSION AND RESULTS

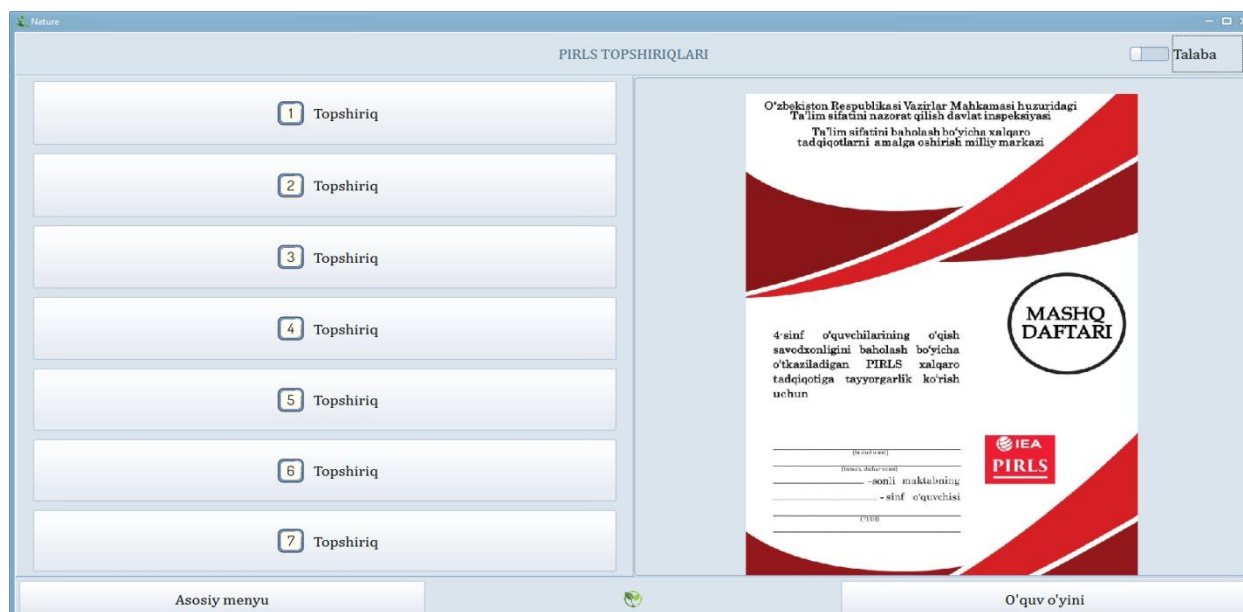
PISA and PIRLS tasks in teaching natural sciences, creating educational tasks aimed at determining the cognitive and creative characteristics of students, regularly using them in intermediate and final controls, lectures and laboratories in basic schools of concrete and natural orientation. It is now showing good results to conduct training on assignments using international assessment programs in their classes. It is appropriate to systematically conduct tests aimed at evaluating the formation of practical skills of students in general education schools. At this point, it is important to increase the knowledge of students in general secondary education, to improve the professional skills of teachers and to have the necessary demonstration materials to prove it with evidence in the course of the lesson. . In order for today's teacher, who respects his profession, to be up-to-date with all the innovations in education, we train teachers, as well as apply a more active system of developmental education to classes and train teachers. We don't think we need to provide materials that can be used more successfully in the learning process.

Although the educational system of Uzbekistan has been emphasizing the determination of children's knowledge, correcting their mistakes and testing, PISA is a completely opposite process to this process: observing the acquired knowledge, to what extent its results are applied in practice. learns how to use it. Using the PISA program means that every teacher in the teaching process will always introduce new information from the social network into the teaching process, and in turn, students will be encouraged to search creatively.

Development of age-appropriate PISA tasks in each subject area that support the development of the student's cognitive and creative features, using them in the current, intermediate and final controls, systematically conducting tests aimed at evaluating the formation of students' practical skills in natural sciences its implementation will give only good results in practice. This can be a bit problematic. However, we cannot suddenly tell children who have been taught to memorize for many years: "Stop memorizing like that, now you need to think creatively or test your knowledge in a real life situation." But we need to go to such changes step by step.

For example, in the same issue, in the country of Singapore, there is a view that "If we teach our children to memorize, they will learn the same situation as we learned, if we teach them to think, they will learn more realities."

Nowadays, in our country, students' interest in natural sciences should be further increased, combined with theoretical education, and practice should be carried out. increasing and the extreme decline of some species, we can see that the anthropogenic influence is increasing significantly in this process, in this case, students can develop their foresight, thinking ability, how to relate to nature, every plant, the animal requires the development of the ability to discover the beneficial properties of microorganisms.



The PIRLS international study provides an international comparison of information on the level of development of reading comprehension skills of primary school students, which can serve public policy in the field of education to improve reading and teaching. provides analysis. Currently, PIRLS defines reading literacy as the ability to understand and use forms of written language that are required and valued by society, as well as the ability to make meaning from texts in a variety of ways.

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