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The Problem of Improving the Mechanisms of Integrated Teaching of Academic Subjects Based on the Cluster Approach in Primary Education

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ANNOTATION

the problem of improving the mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education is discussed and its research is based.

KEYWORDS: education, initial, cluster, approach, integration, training, improvement.

In the development strategy of the new Uzbekistan, the tasks of achieving high-quality education and developing human capital (mental capabilities) until 2026 are set [1]. In this sense, the integrated teaching of academic subjects based on the cluster approach in primary education is the basis for achieving quality indicators at this stage of education. Here, we draw your attention to the analysis of this problem.

In the world, the process of development of humanity and the countries of the world based on the requirements of the present time is taking place through the means of education. Improvement and development of the education system on the basis of standardized and unified international educational programs plays an important role in this. In this process, the global declaration of the United Nations "Higher education in the 21st century: approaches and practical measures" and the international youth strategy of this organization "Youth-2030: working with young people and for the interests of young people" are an important basis.

Special attention is paid to the formation of thinking and skills of the young generation based on the experiences of the countries. International educational programs such as TIMSS and STEAM are also the basis for the development of the world education system. It should be noted that the educational process of the participating countries is developing on an international scale based on international programs.

Reforms are underway in the educational systems of the countries of the world to implement the teaching process based on modern technologies. Special attention is paid to the issues of compliance with the rules, requirements and evaluation criteria of international educational programs of academic subjects in the educational system of the world countries. The goal is to have a standardized educational system in the countries of the world and to bring up an active person through it. Therefore, special attention is paid to innovative development in the educational system of the countries of the world today.

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In the educational system of our country, work is being done to organize the educational process and improve the teaching of academic subjects based on the national educational experience and international educational programs and the experiences of foreign countries in this regard. In this regard, it should be noted that during the next five years, pedagogical researches of a completely new content, aimed at improving the educational process, were created.

For example, our country is scheduled to participate in the tests of the PIRLS international educational program for the first time, in which students under 15 years of age participate. This international educational program identifies and evaluates students' reading comprehension and mathematical literacy and makes recommendations on ways to further develop these skills.

All this requires a large-scale study of the problem of improving the mechanisms of integrated teaching of academic subjects based on the primary education cluster approach. For this, the following problems should be researched and scientific solutions should be found:

first, to study the problem of integrated teaching of primary education subjects. Today, in primary education in our country, such as "Mother language and reading literacy", "Mathematics", "Fine arts", "Music culture", "Physical education", "The world around us", "Natural science" and "Technology" are clear, natural and humanitarian. it is worth mentioning that elementary courses of subjects in the series are being taught;

secondly, integrated teaching of primary education subjects based on the cluster approach. In this case, the cluster approach requires the development of mechanisms for the mutual cooperation of teachers, mature specialists and educational institutions in the teaching of educational subjects, as well as the development of forms of their integration, i.e., interdependence and harmony;

thirdly, improving the mechanisms of this process. For this purpose, to develop the theory and methodology of improving this process with the interdependence of integrated teaching mechanisms, that is, forms, tools and methods.

A special study of these issues is the basis for finding scientific solutions to the given problem. In this regard, this research is based on the Decree of the President of the Republic of Uzbekistan No. PF-34 dated January 28, 2022 "New development strategy of Uzbekistan for 2022-2026", No. PF-134 dated May 11, 2022 "National plan for the development of public education in 2022-2026 on program approval", PQ-112 dated April 20, 2017 "Measures for further development of the higher education system on" on February 27, 2020 No. PQ-131 "On measures to further develop the field of pedagogical education" and the Cabinet of Ministers of the Republic of Uzbekistan on April 14, 2021 "On measures to further improve the activities of Chirchik State Pedagogical Institute of Tashkent region" The performance of the tasks specified in the decision serves to a certain extent.

Pedagogical scientists of our country have carried out important scientific researches on the problems of improving the teaching process in the educational system and basing it on modern technologies. In this regard, B. Abdullaeva, O. Azizov, Sh. Abdullaeva, R. Joraev, A. Zunnunov, R. Mavlonova, Sh. Mardonov, U. The researches of Makhkamov, O.Musurmonova, R.Safarova, M.Kuronov, etc. have advanced important

theoretical views on the basics of the teaching process [2]. It is appropriate to use these theoretical views in the research.

Also, the scientific researches of Academicians R.Zhoraev, R.Safarova, O.Adezov, B.Abdullaeva, G.Akromova, A.Tajikhonov on the problems of primary education and the integration basis of the organization of the teaching process at this stage of education are described on an important methodological basis. In the research to be carried out, the opinions of our scientists will be accepted as a methodological basis, which will give the expected result.

Foreign pedagogues such as Ya. Komensky, K. Ushinsky, and M. Montessori have developed methodologies based on the selection of subjects taught in primary education and their teaching. Pedagogical scientists such as A. Gerd, Yu. Babansky, M. Skatkin analyzed the issues of integrated organization of the pedagogical process and improvement of the teaching process based on it.

The issues of organizing the educational process based on the cluster approach and achieving the effectiveness of teaching based on it have been researched in the researches of our scientists such as G. Mukhamedov, U. Khodjamkulov, S. Toshtemirova, Sh. Kadirova, and specific theoretical approaches have been developed in this regard. Currently, the problem of integrated teaching of academic subjects in primary education based on the cluster approach has not been specifically researched.



The scientific, theoretical views and methodological recommendations of our national and foreign pedagogues serve as the basis for defining the concept of our research.

It is important that the purpose of the ban is to study and research the problem of improving the mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education.

It is important to set the following problems as research tasks:

studying the pedagogical necessity of improving the mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education, its features and problems;

research of forms of improvement of mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education;

development of practical bases for the use of forms of improvement of the mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education;

conducting pedagogical experiment-testing on the effectiveness of improving the mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education and formulating recommendations based on its results [3].

The object of the study is to improve the mechanisms of integrated teaching of academic subjects in primary education based on the cluster approach.

issues and the process of using it.

The subject of the research should be the development of integrated forms of teaching by categorization of primary education subjects based on the cluster approach and the development of integrated forms of teaching using international educational programs.

Integrated teaching methods, forms and tools based on the cluster approach as research methods; synthesis and analysis, typological analysis; In primary grades, it is based on the integrated methods of teaching subjects by categorizing them.

The scientific novelty of the research is assumed and based on the following:

the pedagogical necessity of improving the mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education, its features and problems are studied;

forms of improving mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education are researched;

based on the cluster approach in primary education, the practical basis of using forms of improving the mechanisms of integrated teaching of academic subjects will be developed;

based on the cluster approach in primary education, recommendations are made on the effectiveness of the improvement of the mechanisms of integrated teaching of academic subjects, conducting pedagogical experiments and tests, and based on its results.

The following are achieved as practical results of the research:

research of the pedagogical necessity of improving the mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education, its features and problems;

analysis of forms of improvement of mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education;

formation of practical bases for the use of forms of improvement of mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education;

Conducting pedagogical experiments on the effectiveness of improving the mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education and developing recommendations based on its results.

It is important that the scientific and practical significance of the research results is determined by the following: the scientific significance of the research is determined by the fact that the problem of improving the mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education is researched.

The practical importance of the research is explained by the development of integrated forms of teaching subjects by categorization and teaching them using international educational programs, improving the mechanisms of integrated teaching of subjects in primary education based on the cluster approach.

For the first time, the research examines the pedagogical necessity of improving the mechanisms of integrated teaching of academic subjects in primary education based on the cluster approach, the novelty of this approach is substantiated, and its practical significance is determined. Because by means of improving the mechanisms of integrated teaching of academic subjects in primary education, educational efficiency is achieved, the mastery level of primary school students is increased and they have wide opportunities in interdisciplinary connection. It is worth mentioning that all this will give the expected effect with special research.

By achieving quality indicators of primary education in our country, the entire education system can have such opportunities. Because the teaching of academic subjects in cooperation and interdependence is achieved

by adequately preparing primary school students for the next stages of education. In this regard, in our opinion, in this regard, it is appropriate to rely on the following methodology presented in the work "The Great Didactic" by the Czech thinker pedagogue Jan Amos Comenius (1592-1650):

- a) providing students with short and concise educational materials for faster learning;
- b) rational use of favorable opportunities for effective teaching;
- c) pay attention to the development of mental abilities of students for easy learning;
- d) to generate thinking from students for thorough learning [4].

This method serves as one of the principles of integrated teaching of academic subjects in primary education.

Thus, a special study of the problem of improving the mechanisms of integrated teaching of academic subjects based on the cluster approach in primary education is urgent.

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