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| Research Article

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Methodology of using interactive methods in solving arithmetical problems

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Abstract: New pedagogical technologies are the product of goal-oriented forms, methods and tools of education, in particular, mathematics education. Observations show that in most cases, the teacher works alone during the lesson, and students remain observers. In this work, one of the teaching methods to connect the teaching of mathematics with life, to develop students' thinking skills, to increase the effectiveness of teaching is to talk about the "Case-study" method, examples of which are given and related to mathematics. Examples are given on the compilation of cases from the topic "Detecting of indefiniteness, L'Hopital's rule" on the subject of "Mathematical Analysis

Keywords: new pedagogical technology, case-study method, types of cases, State Educational Standards (SES) and model curriculum, working curriculum, e-learning resources.

Large-scale reforms are being held in the development of Mathematics and science in the country today, and government decisions are being adapted to improve the content of Mathematics education with life, to increase the effectiveness of teaching, to bring up a harmoniously developed generation for a fast-growing society. At the same time, the introduction and application of new pedagogical technologies in the process of teaching Mathematics is directly related to the requirements of the time. New pedagogical technology is a product of goal-oriented forms, methods and tools of education, in particular, Mathematics education. Observations show that in most cases, the teacher works alone during the lesson, and students remain observers. This kind of education does not increase the intellectual thinking of students, does not increase their activity, and does not extinguish their creative activity in the educational process. In addition, lessons based on advanced pedagogical technology [1-9] help students to integrate their knowledge. develops students' thinking, teaches independent, creative thinking. After all, the upbringing of a harmoniously developed generation is an important sign of the cultural and educational development of society, the spiritual maturity of the nation. In this work, we will try to explain the essence of the method "Case-study" on the example of the subject of Mathematical analysis. "Case-stage" - derived from the English word ("case" - a real situation, event, "study" - to study, analyze) to carry out teaching based on the study, analysis of specific situations is a focused method. The essence of the Case stage method is that participants are invited to think about a real-life situation, which describes not only the practical problem, but also the learning material that needs to be mastered in the process

of solving the problem. The analysis of the situation in this way also has a strong influence on the student's pre-experience of future professional activity, which is the basis for the emergence of interest and motivation to study. Let's take a look at the mathematical types of case studies in the case study method, which is gaining popularity today.

They are divided into:

1) Practical cases;

2) Educational cases;

3) Scientific research cases.

The great creative work taking place in our country today, the laws and decisions adopted in the field of education, the great goals set out in our "National Program" encourage today's teachers to work harder and do more research. The positive results of these goals, first of all, are the effective organization of educational work to teach the younger generation the basics of scientific knowledge, to form in them a broad outlook and scope of thinking, the formation of spiritual and moral qualities. associated with. After all, the creation of a bright future of the country, the spread of its name in the world, the presentation of national and cultural heritage created by great ancestors to the public, their enrichment depends on educating the younger generation as full-fledged and qualified professionals.

The educational process allows you to express a set of theoretical and practical knowledge on a particular topic, which serves to illuminate the content of the educational material. The content of education should also reflect the scope of the concepts, skills and competencies that students need to acquire. After all, the ideological perfection of the content of education is determined by the level of acquisition of certain knowledge, skills and abilities by students. The effect of this is reflected in the development of conditions that enable students to master certain concepts and develop skills and competencies. It is the form, methods and tools of the lesson that contribute to the success of the learning process. With their help, theoretical knowledge about the subject of the subject is transmitted to students, and this knowledge is accepted by students. Determining the most appropriate form, method, and tools for the course will ensure almost 90 percent success in the learning process. It is at this stage that the essence of new, modern pedagogical technologies is revealed. The right choice of forms, methods and tools of education that encourage students to be creative, active, freethinking will help to make the teaching process more effective, interesting, full of debate, and creative debate. Only in this case, students take the initiative, and the teacher is able to direct their activities in a certain direction, to control the overall activity, to provide guidance in difficult situations, giving advice, as well as evaluating their performance.

One of the most important requirements for the organization of modern education is to achieve high results in a short time without spending too much mental and physical effort. To provide students with specific theoretical knowledge in a short period of time, to develop skills and competencies in a particular activity, as well as to monitor the activities of students, to assess the level of knowledge, skills and competencies acquired by them from the teacher requires high pedagogical skills and a new approach to the educational process. Forced use of pedagogical technologies is not possible. On the contrary, it is advisable to develop them creatively, while using the advanced technologies based on or used by experienced educators.

“6x6x6” method. Using the 6x6x6 method, it is possible to solve a specific task or problem by involving 36 students in a specific activity at the same time, as well as to identify the capabilities of each member of the group and find out their views. In this method-based activity, 6 groups of 6 participants each discuss the problem posed by the teacher. At the end of the time, the teacher reorganizes the 6 groups. Each of the reorganized groups will have one representative from the previous 6 groups. The newly formed group members present to their teammates the conclusions presented by the group as a solution to the problem and discuss these solutions together. “Cluster”

method. The cluster method is a specific form of pedagogical, didactic strategy that helps students to think freely and openly about voluntary problems and to express personal opinions. This method requires the identification of a structure that allows one to think about the connections between different ideas. The cluster method is a form of thinking that is not object-oriented. Its use is linked to the way the human brain works. This method serves to ensure that the thinking process is smooth until the students have mastered a particular topic in depth and thoroughly. The method is presented in the form of group lessons and a set of ideas expressed by students. This allows you to summarize the ideas put forward and find connections between them.

The "intellectual attack" method. This method is used in the early stages of the process of ensuring the activity of students in the classroom, encouraging them to think freely and freeing them from the inertia of the same thinking, collecting colorful ideas on a particular topic, as well as solving creative tasks. serves to learn to overcome existing ideas.

References

1. Jakhongir, O. (2023). Digital Economy of the Age.
2. Oramov, J. (2023). INTERNATIONAL CORPORATIONS AS SUBJECTS OF INTERNATIONAL FINANCIAL RELATIONS. Экономика и социум, (4-2 (107)), 234-238.
3. Ikromovich, R. Z., Murtazaevna, K. Y., Rashidovich, M. N., & Oramov, J. J. FEATURES OF THE CREDIT MECHANISM OF INTERNATIONAL FINANCIAL ORGANIZATIONS.
4. Rakhmatullaev, A. I., Ruziev, Z. I., & Normamatov, I. B. (2020). Advantages of Developing Cashless Settlement. Asian Journal of Technology & Management Research [ISSN: 2249–0892], 10(01).
5. Ikromovich, R. Z., & G'ayratovich, A. O. (2023). PROBLEMS OF LIBRARY AND INCREASE COMPETITIVENESS OF NON-GOVERNMENT EDUCATIONAL INSTITUTIONS IN OUR COUNTRY. Open Access Repository, 4(3), 201-206.
6. Nigora, A. (2023). Improving Accounting And Auditing Of Goods And Material Resources. Gospodarka i Innowacje., 208-215.
7. Alimkhanova, N. (2023). Improving accounting and auditing of goods and material resources. Экономика и социум, (4-2 (107)), 21-25.
8. Murodova, N. U., Temirova, F. S., Alimkhanova, N. A., Dostova, M. K., & Azimova, K. E. IMPROVING THE CALCULATION OF INVENTORIES OF GOODS IN ACCOUNTING. Kielce: Laboratorium Wiedzy Artur Borcuch.
9. Alimkhanova, N. (2023). Improving accounting and auditing of goods and material resources. Экономика и социум, (4-2 (107)), 21-25.
10. Nigora, A. (2022). Monetary policy. Web of Scientist: International Scientific Research Journal, 3(10), 585-591.
11. Ikramovich, R. Z., & Khamidovich, T. S. (2022). The Role of Fiscal Policy in Ensuring the Financial Stability of Uzbekistan. European Multidisciplinary Journal of Modern Science, 4, 361-366.
12. Ikramovich, R. Z., & Khamidovich, T. S. (2022). The Role of Fiscal Policy in Ensuring the Financial Stability of Uzbekistan. European Multidisciplinary Journal of Modern Science, 4, 361-366.