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MODERN APPROACHES IN PRIMARY EDUCATION

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Abstract

In the primary education system, modern medicine helps to improve the educational process of students more effectively. Modern pedagogical methods and technology used in design education are comprehensively analyzed in three articles.

Keywords

Primary education, modern approaches, personalized education, projectbased education, digital technologies, artificial intelligence, improving the quality of education, integrated education.

Аннотация

В системе начального образования современная медицина способствует более эффективному совершенствованию образовательного процесса учащихся. В трех статьях всесторонне анализируются современные педагогические методы и технологии, используемые в дизайнерском образовании.

Ключевые слова

Начальное образование, современные подходы, персонализированное образование, проектное образование, цифровые технологии, искусственный интеллект, повышение качества образования, интегрированное образование.

Primary education is the foundation for subsequent stages of human education and plays an important role in the formation of students' fundamental knowledge and skills. Therefore, in the modern world, there is a growing need to introduce new approaches to primary education. Instead of traditional teaching methods, interactive and innovative methods allow making the educational process more effective. One of the main changes in the modern education system is associated with the increase in personalized and adapted education, which takes

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into account the individual needs of students. Also, the widespread use of digital technologies in primary education, approaches such as project-based learning (PBL) and integrated curricula are becoming increasingly popular. This article provides a comprehensive analysis of modern approaches used in primary education and their impact on the quality of education.

Modern approaches are as follows:

1. Personalized education;
2. Project-Based Learning (PBL);
3. Digital technologies and artificial intelligence;
4. Integrated curricula.

1. Personalized learning;

The personalized learning approach involves organizing the educational process taking into account the specific needs of each student. Through this approach, students receive education in accordance with their interests, abilities and level of knowledge.

Advantages of personalized learning:

• Increases student engagement in the learning process.

• Provides teachers with the opportunity to work individually with each student.

• Improves the level of student mastery.

In this approach, the needs and abilities of students are constantly analyzed and appropriate learning materials and tasks are provided to them. For example, using digital platforms, student results can be monitored and customized educational directions can be offered to them.

2. Project-Based Learning (PBL)

Project-Based Learning is based on the process of students learning through problem-solving and practical tasks. This approach aims to provide children with not only theoretical knowledge, but also to ensure that they are prepared for real-life situations. Key aspects of project-based learning:

• Teaches students to think independently and be creative.

• Develops real-world problem-solving skills.

• Develops students' communication and teamwork skills.

For example, in biology, students can work on a small research project to study the life cycle of plants. This method allows students to apply theoretical knowledge in practice.

3. Digital technologies and artificial intelligence

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The use of digital technologies and artificial intelligence in primary education has significantly changed the educational process. Today, digital platforms, virtual laboratories and interactive learning tools are taking students' learning to a new level. With the help of digital technologies, students can learn regardless of time and place using interactive educational programs. For example, with the help of educational programs based on artificial intelligence, students can individually complete exercises and monitor and evaluate their results in real time. This speeds up the process of students' mastery and increases their interest.

4. Integrated curricula

Integrated curricula involve teaching several subjects in a way that connects them. For example, by showing the connection between mathematics and natural sciences, students have the opportunity to understand the topics of study more broadly. Such approaches help students understand the connections and interrelationships between different subjects, which develops their critical thinking skills. The use of modern approaches in primary education increases students' interest in learning and makes the process of their learning more effective. A common feature of all modern approaches analyzed in the article is that they are aimed at developing students' independent thinking and practical skills.

• A personalized learning approach significantly increases students' learning outcomes by adapting to their level of learning.

• Project-based learning allows students to apply theoretical knowledge to real-world problems.

• Digital technologies and artificial intelligence increase student engagement in the learning process, making the learning process more meaningful and interesting for them.

• Understanding interdisciplinary connections through integrated curricula develops students' critical thinking skills. The introduction of these approaches in primary education has a positive impact on the quality of education and is an important factor in preparing students for subsequent stages of education. The introduction of modern approaches in the primary education system significantly enriches the learning process and plays an important role in increasing the effectiveness of students' learning. Today, instead of abandoning traditional teaching methods, combining them with modern pedagogical and technological approaches is taking primary education to a new level. Approaches such as personalized learning, project-based learning, the use of digital technologies, and integrated curricula analyzed in this article serve to create a comfortable and effective learning environment for students. On the one hand, a personalized

learning approach individualizes the educational process, taking into account the specific abilities and needs of each student. This method helps to increase students' interests and deepen their knowledge. Teachers monitor students and give assignments appropriate to their level of knowledge, which ensures that each student learns at his or her own pace.

Project-based learning allows students to apply theoretical knowledge in practice. Through the project-based method, students develop problem-solving skills by mastering real-life situations. This approach increases children's creative thinking and independent work skills, as well as teaches them to work in a team.

The widespread introduction of digital technologies and artificial intelligence makes the educational process interactive and interesting. Interactive tools, virtual classrooms, and artificial intelligence-based curricula facilitate learning, increase students' interest in learning, and help monitor their level of knowledge. These technologies allow students to improve their learning performance and provide them with effective feedback in real time.

Also, teaching the connection between different disciplines through integrated curricula develops students' critical thinking skills. Through this approach, students integrate interdisciplinary knowledge and increase their understanding in a broader context, which significantly increases their overall level of knowledge. Modern approaches play an important role in shaping students as independent and active learners. Therefore, the combined use of traditional and modern methods in primary education is an effective way to improve the quality of education. As a result, students will not only be successful in the learning process, but also feel prepared to solve complex situations in the future.

The approaches analyzed in the article are important steps towards the development of primary education. In the future, the wider application of these modern approaches will serve to make the educational process more innovative and effective. Therefore, the quality of the education system can be improved by continuing the successful implementation of these approaches.

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