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VAZIRLIGI



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METHODOLOGY OF ORGANIZING CREATIVE LESSONS IN PRIMARY EDUCATION BASED ON ARTIFICIAL INTELLIGENCE

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Abstract: This article analyzes the pedagogical foundations of organizing creative lessons in primary education based on artificial intelligence technologies. The study highlights the possibilities of developing students' creative thinking, cognitive activity, and independent learning skills through the use of AI tools in a digital educational environment. Furthermore, the didactic opportunities of artificial intelligence technologies, interactive teaching methods, and their role in improving the effectiveness of primary education are scientifically substantiated.

Keywords: artificial intelligence, primary education, creative learning environment, digital pedagogy, innovative methods, interactive technologies, AI tools, creative thinking.

Introduction. In the context of globalization and digital transformation, the integration of innovative technologies into the education system has become one of the most important pedagogical tasks. In particular, the development of creative thinking, independent learning abilities, and learning motivation among primary school students is considered a key factor in improving the quality of education. From this perspective, the use of artificial intelligence technologies in organizing creative lessons is emerging as an innovative direction in modern primary education.

Artificial intelligence technologies provide opportunities to analyze students' individual characteristics, adapt educational content, and create an interactive learning environment. This allows teachers to implement differentiated and adaptive teaching approaches effectively. As a result, students' cognitive activity increases, and their creative thinking skills are developed.

Pedagogical Opportunities of Artificial Intelligence Technologies. The use of artificial intelligence technologies in primary education contributes significantly to increasing students' engagement in the learning process. AI-based platforms can identify students' knowledge levels and recommend appropriate tasks and educational materials according to their abilities. This creates favorable conditions for individualized learning trajectories.

Moreover, AI tools make it possible to visualize lessons, create animations, and organize interactive activities. Such processes increase students' interest in lessons and encourage creative approaches to learning. Considering the age characteristics of primary school students, interactive methods based on game elements are particularly effective in improving educational outcomes.

Artificial intelligence technologies provide opportunities for:
monitoring students' knowledge levels;
designing individualized assignments;
implementing automated assessment systems;
creating creative educational games and exercises;
developing multimedia learning resources.

These opportunities play an important role in establishing a creative educational environment and organizing innovative pedagogical activities in primary education.

Methodology of Organizing Creative Lessons. The methodological basis of organizing creative lessons through artificial intelligence consists of interactive, differentiated, and competency-based approaches. A creative learning environment is considered a pedagogical system aimed at supporting students' free thinking, creative activity, and independent decision-making.

In primary education, methods such as problem-based learning, project-based learning, gamification, and brainstorming are widely used to organize creative lessons. AI technologies allow these methods to be implemented in more interactive and innovative forms.

For example, AI tools can be used to:
generate stories and fairy tales related to lesson topics;
create images and animations;
develop interactive quizzes and tasks;
analyze students' responses;
provide automated recommendations.

Such methodological approaches contribute to the development of students' creative thinking and independent learning skills.

The Use of AI Tools in the Digital Educational Environment. Currently, AI tools such as ChatGPT, Gemini, Kahoot, Quizizz, and Canva AI are increasingly being used in primary education. These platforms help teachers effectively plan lessons, design creative assignments, and create interactive educational environments.

Through the use of AI technologies:
students' learning motivation increases;

individualized instruction is ensured;
creative and critical thinking skills are developed;
teachers' methodological activities are improved.

In addition, artificial intelligence technologies help automate educational processes and effectively organize pedagogical monitoring.

Pedagogical Effectiveness. The organization of creative lessons based on artificial intelligence not only improves students' academic performance but also enhances their communicative and social competencies. Research findings indicate that students participating in AI-supported lessons demonstrate higher levels of:

learning motivation;
classroom engagement;
creative thinking;
independent learning abilities
compared to traditional teaching approaches.

Furthermore, artificial intelligence technologies optimize teachers' pedagogical activities and improve the management of educational processes.

Conclusion. In conclusion, organizing creative lessons in primary education based on artificial intelligence is considered one of the important innovative directions of modern education. The use of AI technologies contributes to the development of students' creative thinking, cognitive activity, and independent learning competencies.

Artificial intelligence tools also provide opportunities for personalizing education, creating interactive pedagogical environments, and improving teachers' methodological activities. Therefore, the effective integration of AI technologies into primary education will become one of the key factors in enhancing the quality and effectiveness of education in the future.

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