

THE THEORETICAL FOUNDATIONS OF IMPROVING STUDENTS' READING PROFICIENCY BASED ON MODERN TRENDS

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Annotation. *his article delves into the transformative impact of modern educational trends on the development of students' literacy skills in the 21st century. It explores key facets such as digital literacy, media literacy, Gamification in Education, Virtual and Augmented Reality (VR & AR, Nano Technologies in Education, Virtual Reality and Artificial Intelligence (VR & AI, Utilization of Big Data in Education:, K-12 Digital Learning Programs, Blockchain in Education, Personalized Learning, STEAM Curriculum, Subscription-Based Learning Models, Focus on Comprehensive. Through a comprehensive examination of these trends, the article highlights how contemporary education goes beyond traditional literacy paradigms, preparing students to navigate a complex, interconnected world. By embracing diverse learning modalities and fostering critical thinking, educators aim to cultivate literate individuals capable of thriving in a rapidly evolving information landscape.*

Key words. *innovation, integration, mechanism, technology, Nano Technologies in Education, Virtual Reality and Artificial Intelligence (VR & AI, Utilization of Big Data in Education:, K-12 Digital Learning Programs, Blockchain in Education, Personalized Learning, Gamification in Education, STEAM Curriculum.*

Introduction. In recent years, in our republic, the normative foundations of independent and free thinking of the young generation, expansion of worldview, perception of events happening around, development of literacy of students are being created on the based on multimedia educational resources. There is an increase in the opportunities for the educational system to raise a generation that is well-rounded, intellectually, physically and spiritually, and to improve the

quality of primary education, which is the basis of future education. The conceptual basis of "adapting the secondary education system to the requirements of the times"¹ provided for in the fourth direction of the development strategy of the Republic of Uzbekistan for 2022-2026 was defined as an important priority task. This expands the possibilities of improving the educational process of primary school students based on the programs of new pedagogical technologies.

In the 21st century, recognition has been given to education as a fundamental factor in ensuring sustainable development globally, and the international education concept, defined until 2030, has been identified as a crucial task under the banner of "creating opportunities for quality education throughout life"². In this education system, the use of technologies directed towards enhancing the methodological preparedness of educators, especially those teaching in the initial grades, has expanded, facilitating the utilization of technologies aimed at fostering creative thinking.

Globally, efforts are underway to modernize information technologies in the field of education, to study their didactic foundations, and to refine the methodology and methodology of developing new approaches, tools, and resources, with a focus on modeling both reproductive and productive levels of students' cognitive activity through scientific and practical research³. As a result of these research endeavors, the aim is to cultivate independent, critical thinking in students, foster positive attitudes towards the environment, and enhance qualities such as responsibility and social activity, all while establishing a material-technical base for the use of information technologies in the educational process, producing educational materials.

The initial steps have been taken to strengthen the role of the education system in nurturing intellectually competent learners, and efforts are being made to create conditions for the development of the professional competence of initial-grade teachers by introducing innovative pedagogical and information-communication technologies into their activities^{4,5}.

Research Object and Applied Methods

The object of the research was the process of effectiveness of developing the reading literacy of elementary school students based on modern trends as a research subject has been studied, and in this regard, the main focus has been on effective assessment, with didactic requirements for assessment being taught. In outlining the

¹ Decree of the President of the Republic of Uzbekistan No. PF-60 dated January 28, 2022 "On the development strategy of the new Uzbekistan for 2022-2026".

²Incheon declaration/Education 2030: Towards inclusive and equitable quality education and lifelong learning for all (World Education Forum, 19-22 may 2015, Incheon, Republic of Korea).

research topic, classification, description, contextual, complex, and functional analysis methods have been used.

Obtained Results and their Analysis.

The theoretical and practical significance of organizing the educational process of a general education school with the help of modern trends is presented in the studies of scientists, such as Y.N. Egorova, V.N. Ageev, Y.G.Drews, S.G. Antonova, I.M. Krasilnikova, N.A.Glagoleva , O.S.Ushakova, E.M.Strunina. The issues of organizing primary education using modern trends were studied by U.A. Masharipova, M.I. Toshpulatova, A.V. Sadikova, M.A. Kenzhaeva, M.N. Tsoi.

Over the centuries it has been proven that the development of a nation is always associated with the upbringing of the younger generation. The more attention is paid to the development of youth, the more prosperous and happier the future will be. Since the main activity of young people is to gain knowledge and comprehend the world around them, the school plays an important role as one of the factors responsible for their education and upbringing. Efforts directed at schools and the development of the educational process also make a significant contribution to the development of youth. Today, time is rapidly developing, and as a result, modern trends are influencing the educational process. The modern trends in the educational process are:

Gamification in Education: Gamification is one of the teaching methods that aims to engage students in the learning process by incorporating elements of video games and game-like elements. The gamification technique provides students with the opportunity to independently progress. Additionally, game-based methods have proven to enhance cognitive abilities, such as problem-solving skills, and are highly beneficial for increasing activities and competition in the classroom.

Virtual and Augmented Reality (VR & AR): As technology advances, virtual and augmented reality are rapidly developing in the education sector. According to "Market Research Future" (MRFR) studies, the use of VR and AR in education is expected to grow by 18.2% from 2022 to 2027. These technologies revolutionize the teaching methodologies in the education sector, offering immersive experiences for both teachers and students. Virtual and augmented reality technologies provide extensive possibilities for enhancing understanding of complex concepts, especially in courses related to science, technology, engineering, arts, and mathematics (STEAM).

Nano Technologies in Education: Nano-learning technology, also known as microlearning, divides complex topics into smaller, easily digestible segments. This method aims to provide students with concise and defined topics, allowing for quicker learning within a short, uninterrupted learning process. Nano-learning involves short, multimedia-based learning materials and assignments, facilitating students' quick comprehension and retention of large amounts of information.

Virtual Reality and Artificial Intelligence (VR & AI): Artificial intelligence (AI) in education involves AI systems influencing and assisting human interactions, particularly in revolutionizing and innovating the education sector. According to forecasts, the value of AI in the education sector is expected to reach \$3.68 billion by 2023. AI tools and technologies assist in quickly assessing documents, providing personalized learning experiences, and aiding in the delivery of intelligent content to students. They also support the use of tutoring programs for students.

Utilization of Big Data in Education: The term "Big Data" refers to the vast amount of data that is challenging to manage. Recently, the increasing use of online tools and software in education has led to the generation of a large volume of data. Big Data is instrumental in improving student outcomes, creating personalized programs for each student, and analyzing students' behaviors more closely and accurately.

K-12 Digital Learning Programs: The K-12 digital learning system is a concept that has gained popularity in countries such as the United States, Canada, and various European nations. According to the National Center for Education Statistics (NCES), the number of K-12 schools in the United States is increasing, and the K-12 education system is recognized for its collaborative approach between teachers and students, fostering closer interaction and enhancing students' ability to learn.

Blockchain in Education: Blockchain technology provides a mechanism that makes it virtually impossible or extremely difficult to alter, tamper with, or manipulate information. In the education sector, blockchain enhances security by allowing institutions to store a vast amount of student information in a highly secure manner. Blockchain is also beneficial for securely storing valuable certificates and managing academic achievements.

Personalized Learning: Personalized learning is an innovative and effective approach to education, tailoring the learning experience to each student's strengths, needs, preferences, and interests. It allows students to learn at their own pace and provides them with the flexibility to access content and resources conveniently. This approach includes using online platforms that offer a customized curriculum and provide technical capabilities for hosting seminars and presentations.

STEAM Curriculum: The STEAM (Science, Technology, Engineering, Arts, and Mathematics) curriculum has emerged as a significant change in the approach to education in the 21st century. STEAM integrates various disciplines to foster creativity and innovation. It not only teaches subjects but also encourages students to ask questions, conduct experiments, and engage in problem-solving, enhancing their critical thinking skills.

Subscription-Based Learning Models: Subscription-based learning models have gained prominence in recent years, offering quality education promises to

students. These models involve students paying a monthly or yearly fee to access learning materials and courses. These platforms make learning convenient for students, providing technical capabilities for attending seminars and workshops without the need for a one-time payment.

Focus on Comprehensive Education: Educational scenarios are evolving towards ensuring the overall and complex development of students. Responsible individuals, such as teachers, play a crucial role in guiding students with well-defined and responsible approaches to cope with the challenges of students' lives. Teachers are increasingly using complex teaching methodologies to teach the right skills to students to prepare them for a rapidly changing world. Complex learning brings significant benefits, including the growth of intellectual and emotional intelligence and the enhancement of problem-solving abilities.

Conclusion. The development of students' literacy skills in the 21st century extends far beyond the conventional reading and writing paradigms. Modern educational trends aim to equip students with a comprehensive set of literacy skills, encompassing digital, media, critical, multimodal, global, and collaborative literacy. As educators embrace these trends, they empower students to navigate the complexities of the modern world, fostering literate individuals who can thrive in an information-rich and interconnected society.

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