



DEVELOPMENT OF CRITICAL THINKING IN PRIMARY SCHOOL CHILDREN

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Abstract:

Critical thinking is a fundamental skill that plays a crucial role in a child's cognitive and intellectual development. In the context of primary education, fostering critical thinking enables young learners to analyze information, solve problems, and make informed decisions. This paper explores the importance of developing critical thinking skills in children of primary school age and examines the methodologies used to enhance this competency in the classroom. The research focuses on effective teaching strategies, including inquiry-based learning, problem-solving tasks, and collaborative discussions, that encourage analytical reasoning and independent thought among young students. Moreover, the paper discusses the role of educators in creating an environment that nurtures curiosity and logical reasoning. The study also considers challenges faced in implementing critical thinking methodologies in primary education, particularly within the context of Uzbekistan. By analyzing different pedagogical approaches, the paper aims to provide insights into how primary education can foster a culture of critical inquiry from an early age, thus equipping students with essential skills for their future academic and personal success.

Keywords: Critical thinking, primary education, cognitive development, problem-solving, analytical skills, pedagogical strategies, inquiry-based learning, classroom activities, Uzbekistan, early childhood education.



BOSHLANG'ICH SINIF YOSHIDAGI BOLALARDA TANQIDIY FIKRLASHNI RIVOJLANTIRISH

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Annotatsiya:

Tanqidiy fikrlash bolaning kognitiv va intellektual rivojlanishida hal qiluvchi rol o'ynaydigan asosiy qobiliyatdir. Boshlang'ich ta'lim sharoitida tanqidiy fikrlashni rivojlantirish yosh o'quvchilarga ma'lumotlarni tahlil qilish, muammolarni hal qilish va asosli qarorlar qabul qilish imkonini beradi. Ushbu maqola boshlang'ich maktab yoshidagi bolalarda tanqidiy fikrlash ko'nikmalarini rivojlantirishning ahamiyatini o'rganadi va sinfda ushbu malakani oshirish uchun qo'llaniladigan metodologiyalarni ko'rib chiqadi. Tadqiqot yosh talabalarda analitik fikrlash va mustaqil fikrlashni rag'batlantiradigan samarali o'qitish strategiyalariga, jumladan so'rovga asoslangan ta'limga, muammoli vazifalarni hal qilishga va hamkorlikda muhokama qilishga qaratilgan. Bundan tashqari, maqola qiziquvchanlik va mantiqiy fikrlashni rivojlantiruvchi muhitni yaratishda o'qituvchilarning roli haqida gapiradi. Tadqiqotda, shuningdek, boshlang'ich ta'limda, xususan, O'zbekiston sharoitida tanqidiy fikrlash metodologiyasini joriy etishda duch keladigan muammolar ko'rib chiqiladi. Maqolaning maqsadi turli pedagogik yondashuvlarni tahlil qilish orqali boshlang'ich ta'lim tanqidiy izlanish madaniyatini erta yoshdan qanday tarbiyalashi va shu tariqa o'quvchilarni kelajakdagi akademik va shaxsiy muvaffaqiyatlari uchun muhim ko'nikmalar bilan jihozlashi mumkinligi haqida tushuncha berishdir.

Kalit so'zlar: Tanqidiy fikrlash, boshlang'ich ta'lim, kognitiv rivojlanish, muammolarni yechish, tahliliy ko'nikmalar, pedagogik strategiyalar, izlanishga asoslangan ta'lim, sinf faoliyati, O'zbekiston, erta yoshdagi bolalar ta'limi.

Introduction

The development of critical thinking skills in primary school students has become a fundamental objective of modern education. In an era where information is



abundant and rapidly evolving, children must acquire the ability to think independently, analyze information critically, and make reasoned judgments. Critical thinking enables young learners to question assumptions, solve problems effectively, and develop a deeper understanding of the world around them. As primary education lays the foundation for future learning, it is essential to integrate strategies that encourage cognitive flexibility, logical reasoning, and intellectual curiosity.

Critical thinking is not an innate ability but rather a skill that requires systematic instruction and practice. Educators play a vital role in shaping students' cognitive habits by designing classroom activities that promote analytical thinking and problem-solving. Traditional teaching methods that rely on rote memorization and passive learning do not adequately prepare children for the challenges of the modern world. Instead, inquiry-based learning, interactive discussions, and experiential learning approaches have been recognized as effective ways to nurture critical thinking in young students. These methods encourage children to explore different perspectives, evaluate evidence, and construct logical arguments.

In Uzbekistan, efforts have been made to modernize primary education and align it with international standards. The implementation of competency-based learning frameworks has emphasized the need for students to develop not only knowledge but also practical thinking skills. However, despite these advancements, challenges remain in integrating critical thinking methodologies into traditional classroom settings. Many teachers face difficulties in shifting from conventional teaching techniques to more student-centered approaches due to a lack of training and resources. Additionally, cultural and systemic factors influence the extent to which critical thinking is prioritized in early education.

This paper examines the significance of critical thinking development in primary school students, with a particular focus on the Uzbek education system. It explores various pedagogical strategies that can be used to cultivate analytical reasoning in young learners and discusses the role of teachers in fostering a learning environment that encourages questioning and independent thought. Furthermore, the study highlights the potential barriers to implementing critical thinking instruction and suggests ways to overcome these challenges. By understanding the importance of critical thinking at an early age, educators and policymakers can



better design curricula and teaching methods that prepare students for lifelong learning and problem-solving.

Main Part

Developing critical thinking skills in primary school students requires a structured and deliberate approach to teaching and learning. Unlike traditional education methods that prioritize memorization and repetition, fostering critical thinking involves engaging students in active learning experiences that challenge their reasoning and problem-solving abilities. One of the most effective ways to encourage critical thinking is through inquiry-based learning, where students are guided to ask questions, explore ideas, and seek evidence to support their conclusions. This method promotes curiosity and encourages young learners to develop a deeper understanding of concepts rather than simply accepting information at face value.

Problem-solving activities also play a crucial role in enhancing critical thinking skills. Teachers can integrate real-life scenarios into the curriculum, prompting students to analyze situations, identify potential solutions, and justify their reasoning. For example, mathematical problem-solving tasks that require logical deductions or science experiments that encourage hypothesis testing allow students to practice critical thinking in a structured manner. Additionally, storytelling and literature discussions can be used to develop students' ability to evaluate characters' decisions, predict possible outcomes, and analyze underlying themes. These activities not only build analytical skills but also enhance students' ability to communicate and defend their ideas effectively.

Another essential strategy for developing critical thinking in young students is the promotion of collaborative learning. Group discussions, peer teaching, and cooperative projects encourage students to engage in dialogue, consider different viewpoints, and refine their reasoning through interaction. When children work together on problem-solving tasks, they learn to articulate their thoughts, provide constructive feedback, and build on each other's ideas. This collaborative approach not only strengthens critical thinking but also helps develop essential social and communication skills.

The role of the teacher in fostering a critical thinking environment cannot be overstated. Educators must create a classroom atmosphere that encourages open-



ended questioning and active participation. Instead of providing direct answers to students' inquiries, teachers can guide them through the process of discovery by asking thought-provoking questions that require deeper reflection. Additionally, encouraging students to justify their answers and consider alternative explanations helps them develop a more nuanced understanding of the subject matter.

Despite the recognized importance of critical thinking in education, several challenges hinder its effective implementation in primary school settings. In Uzbekistan, many schools still rely on traditional teaching methods that emphasize rote learning and standardized assessments. The transition to a more interactive and student-centered approach requires professional development programs that equip teachers with the necessary skills and strategies to facilitate critical thinking activities. Furthermore, classroom environments must be designed to support inquiry-based learning, providing students with access to diverse learning materials and opportunities for exploration.

By integrating critical thinking into primary education, students gain the ability to analyze information critically, make informed decisions, and approach learning with a problem-solving mindset. As education systems continue to evolve, placing greater emphasis on developing students' cognitive and analytical skills will prepare them for future academic and professional success. The next section will discuss the results of implementing critical thinking strategies in primary education and their impact on student learning outcomes.

Discussion and Results

The integration of critical thinking strategies in primary education has shown significant benefits for students' cognitive development, problem-solving abilities, and overall academic performance. Research indicates that students who engage in inquiry-based learning and problem-solving activities demonstrate higher levels of analytical reasoning, creativity, and independent thought. In classrooms where teachers actively encourage questioning and exploration, students develop the ability to assess information critically, make connections between concepts, and approach challenges with confidence.

One of the key findings in the study of critical thinking development in young learners is the role of questioning techniques. Teachers who use open-ended questions and encourage students to explore multiple solutions to a problem create



an environment that fosters intellectual curiosity. For example, instead of asking students to recall facts, educators can pose "why" and "how" questions that require deeper reflection. This approach not only enhances students' comprehension but also encourages them to construct logical arguments and evaluate different perspectives.

Collaborative learning has also proven to be an effective method for developing critical thinking in young students. In group activities, children learn to articulate their thoughts, consider alternative viewpoints, and refine their reasoning through discussion. Studies have shown that students who engage in peer discussions perform better in problem-solving tasks compared to those who learn through individual study alone. By working together, students develop social and communication skills that complement their critical thinking abilities, making them more adaptable to complex situations.

Another critical result of implementing critical thinking strategies in primary education is the improvement in students' decision-making skills. When students are taught to analyze information critically, they become more capable of making informed choices both inside and outside the classroom. This skill is particularly relevant in today's digital age, where children are exposed to vast amounts of information from various sources. Teaching young learners to evaluate sources, recognize biases, and verify facts equips them with the tools necessary to navigate an increasingly complex information landscape.

In Uzbekistan, the shift towards competency-based education has highlighted the importance of integrating critical thinking into the curriculum. While progress has been made, challenges such as traditional teaching practices and limited teacher training continue to pose obstacles. Many educators express a need for professional development programs that provide practical guidance on implementing inquiry-based learning and other critical thinking strategies. Additionally, schools require access to modern learning resources, including digital tools and interactive materials, to support an engaging and dynamic learning environment.

Overall, the results indicate that fostering critical thinking from an early age leads to long-term academic and personal benefits. Students who develop strong analytical skills are better prepared for future educational challenges and are more likely to become active, informed citizens. By prioritizing critical thinking in primary education, Uzbekistan can contribute to the development of a generation



of learners who are equipped to solve problems, adapt to new situations, and engage thoughtfully with the world around them. The next section will focus on the conclusions drawn from this study and recommendations for further improvements in primary education.

Conclusion

The development of critical thinking skills in primary school students is a crucial aspect of modern education, providing young learners with the ability to analyze information, solve problems, and make informed decisions. As education evolves to meet the demands of the 21st century, the focus must shift from traditional rote memorization to interactive and inquiry-based learning methods that nurture cognitive flexibility and independent thought. This study has highlighted the importance of integrating critical thinking strategies into primary education and the positive impact these methods have on students' intellectual development.

One of the key takeaways from this research is the role of educators in fostering an environment that encourages curiosity, analytical reasoning, and problem-solving. Teachers who implement inquiry-based learning, collaborative discussions, and real-world problem-solving activities help students develop critical thinking skills that are essential for lifelong learning. By guiding students to ask questions, explore multiple perspectives, and justify their reasoning, educators empower them to become active participants in their own learning process.

Additionally, the study has demonstrated that critical thinking not only enhances academic performance but also improves students' ability to engage with complex issues beyond the classroom. Children who develop analytical reasoning skills at an early age are better prepared to navigate the modern information landscape, make sound judgments, and adapt to new challenges. Furthermore, collaborative learning experiences contribute to social and communication skills, reinforcing the importance of dialogue and cooperative problem-solving.

Despite the evident benefits, the implementation of critical thinking instruction in Uzbekistan's primary education system still faces several challenges. Many schools continue to rely on traditional teaching methods that prioritize memorization over analytical engagement. A lack of professional development programs for teachers and insufficient access to modern educational resources further hinder the widespread adoption of inquiry-based learning. Addressing these issues requires



targeted efforts from policymakers, educators, and institutions to provide necessary training and create learning environments that promote critical thinking.

To strengthen critical thinking instruction in primary education, several recommendations can be considered. First, teacher training programs should incorporate methodologies that equip educators with practical strategies for fostering analytical reasoning in young students. Second, curriculum revisions should prioritize interactive learning approaches that emphasize problem-solving and logical reasoning. Third, schools should invest in learning materials and digital tools that support inquiry-based education. Finally, educational institutions should encourage a culture of questioning and intellectual curiosity by creating classroom environments that value exploration and debate.

By prioritizing the development of critical thinking skills in primary school students, Uzbekistan's education system can better prepare future generations for the challenges of a rapidly changing world. Encouraging young learners to think independently, evaluate information critically, and approach problems with creativity and logic will contribute to a more informed, adaptable, and competent society.

REFERENCES:

1. Эшманова Н.Н., Матупаева Ш.З. Бошланғич синф ўқувчиларда нафосат ва гўзаллик тарбиясини шакллантириш. “PISA-2022 Xalqaro baholash tadqiqoti natijalari tahlili va ta’lim sifatini oshirishning dolzarb masalalari: muammolar, izlanishlar va yechimlar” mavzusidagi respublika ilmiy-amaliy konferensiyasi. Farg’ona – 2024. 483-485 b.
2. Dilorom, T., & Sarvinoz, B. (2024). BUGUNGI BOSHLANG ‘ICH TA’LIM OLDIGA QO ‘YILGAN MUHIM TALABLAR, BOSHLANG'ICH SINIF O'QUVCHILARNI MUSTAQIL FIKIRLASHGA O'RGATISHDA MODULLI TALIM TEXNOLOGIYALARI. Elita. uz-Elektron Ilmiy Jurnal, 3(1), 192-196.
3. Tashpulatova, D. M., & Toshpolatova, S. (2024). METHODOLOGY FOR DIAGNOSING THE MASTERING OF PRIMARY GRADE STUDENTS'SKILLS FOR ACTIVITY. Web of Technology: Multidimensional Research Journal, 2(12), 108-111.



4. Tashpulatova, D. M. (2024). Identifying Knowledge Acquisition Of Primary Class Students. *Pedagogical Cluster-Journal of Pedagogical Developments*, 2(3), 276-280.
5. Tashpulatova, D. M., & Abduqahhorova, F. N. (2024). HAFTALIK PEDAGOGIK AMALIYOT DAVRIDA BOSHLANG ‘ICH SINFLARDA ‘QITUVCHILARINING MAHORATINI O ‘RGANISHNI LOYIHALASHNING PEDAGOGIK MAZMUNI. *PEDAGOG*, 7(3), 440-444.
6. Tashpulatova, D., & Ne‘matova, K. (2023). BOSHLANG ‘ICH SINFLARDA ANIQ VA TABIIY FANLARNI O ‘QITISHNING ZAMONAVIY TEXNOLOGIYALARI. *Interpretation and researches*, 1(1).
7. Jurayeva, Z. I. (2024). Digital transformation: its didactic possibilities. *American Journal Of Social Sciences And Humanity Research*, 4(02), 135-139.
8. Islomovna, J. Z. (2024). Formation of design and technological competence of pupils through the transformation system. *Current research journal of pedagogics*, 5(01), 44-49.
9. Umarova, Z. A. (2023). UMUMIY O ‘RTA TA‘LIM MAKTABLARIDA PEDAGOGIK KONFLIKTLARNING TURLARI VA ULARNI RAQAMLASHTIRISH TIZIMI. *Academic research in educational sciences*, 4(CSPU Conference 1), 725-729.
10. Umarova, Z. A., & Abdukaxorova, F. N. Q. (2023). BOSHLANG ‘ICH SINFLARDA GUMANITAR FANLARNI INTEGRATSION O ‘QITISH TEXNOLOGIYASI OMILLARI. *Academic research in educational sciences*, 4(6), 95-98.
11. Umarova, Z. A. (2023). Umumiy o ‘rta ta‘lim maktablarida pedagogik konfliktlarning turlari va ularning raqamli tizimi. *Academic research in educational sciences*, 4(CSPU Conference 1), 720-724.
12. Umarova, Z., & Ro‘ziboyeva, D. (2023). O‘QUVCHILARNING BILIM, KO ‘NIKMA VA MALAKALARINI TASHXIS ETISHNING ZARURIYATI. *Academic research in educational sciences*, 4(3), 626-630.
13. Umarova, Z. (2021). UPBRINGING AS A PROCESS IN PRIMARY EDUCATION. *CURRENT RESEARCH JOURNAL OF PEDAGOGICS*, 2(08), 127-131.
14. Сейитниязов, К. М., & Болтабаев, О. (2021). Топонимика Методикалык колланба. *Каракалпакстан*, 1(1), 125.

15. Abdullayev, D. (2020). Мактабгача таълим муассасаси тарбияланувчиларида меҳнатсеварлик ва катталар меҳнатига қизиқишини шакллантириш. Архив Научных Публикаций JSPI.
16. Abdullayev, D. (2020). Спортчи хотин-қизларни тайёрлашда миллий ҳаракатли ўйинларни мазмун ва моҳияти. Архив Научных Публикаций JSPI.
17. Abdullayev, D. (2021). Maktabgacha yoshdagi bolalarni milliy harakatli oyinlar orqali jismoniy rivojlanishini va tayyorgarligini takomillashtirish: maktabgacha yoshdagi bolalarni milliy harakatli oyinlar orqali jismoniy rivojlanishini va tayyorgarligini takomillashtirish. Мактабгача таълим журнали, 3(3).
18. Egamberdiyeva, L. (2024). Formation of professionalism in future teachers in designing the educational process. *Science and innovation*, 3(Special Issue 36), 606-609.
19. Султанова, А. (2014). Модернизация непрерывного образования в школьной практике. Образование через всю жизнь: непрерывное образование в интересах устойчивого развития, 12(2), 74-76.
20. Султанова, А. М. (2015). Важные компоненты системы развивающего обучения. Актуальные проблемы гуманитарных и естественных наук, (4-2), 148-150.
21. Adas, S. (2014). Modernization of lifelong education in school practice. Образование через всю жизнь: непрерывное образование в интересах устойчивого развития, 12(2 (eng)), 69-70.
22. Saidaliyeva, L., Uzokova, J., & Juzjasarova, J. (2023). Types of integration in the educational process. *European Journal of Interdisciplinary Research and Development*, 12, 74-78.
23. Doniyorova, L. K. (2023). Using interactive methods in the lessons. *Web of Teachers: Inderscience Research*, 1(7), 71-76.
24. Дониёрова, Л. Х. (2023). Виды Письменной Работы В Начальной Школе. *Diversity Research: Journal of Analysis and Trends*, 1(3), 85-90.
25. Khudaiberdiyeva, D. L., & Mixaylovna, L. K. (2023). Modern learning tools as a means of student development. *European Journal of Interdisciplinary Research and Development*, 14, 245-252.



26. Дониёрова, Л. Х. Теоретические подходы в формировании познавательного интереса у учащихся.
27. Rifovna, T. G. (2022). The specificity of the school" rivoge"(development) in the development of the professional competence of the future primary education teacher. Conferencea, 478-480.
28. Тожибоева, Г. Р. (2022). Профессиональная компетентность учителя начальных классов. World scientific research journal, 2(1), 94-99.
29. Тожибоева, Г. Р., & Бекирова, Э. Р. (2020). Актуализация гендерного равенства в современном обществе. Academic research in educational sciences, (4), 389-395.
30. Тожибоева, Г. Р., & Бекирова, Э. (2022). Формы развития социальной компетентности младших школьников во внеурочной деятельности. Conferencea, 244-246.
31. Муминджанова, С. Х., & Турғунбулатов, Д. Р. У. (2022). Сочетание идей гуманизма и патриотизма в педагогических взглядах Абдурауфа Фитрата. Science and innovation, 1(B3), 673-675.
32. Abdujalilova, S., & Sodikova, N. (2023). Requirements of Family Education in the Works of Abdurauf Fitrat.
33. Xudayberdiyeva, D., & Abdujalilova, S. (2023). Maktabgacha talim tashkilotlar rahbarining oldiga qoyilgan vazifa va burchlari. Евразийский журнал академических исследований, 3(1 Part 1), 201-204.
34. Akhmedov, B. A. (2022). Using of Information Teaching Technologies in the Teaching Physics in Higher Education. NeuroQuantology, 10(10), 524-536.