

## IN THE DEVELOPMENT OF LOGICAL THINKING OF STUDENTS THE ROLE OF FEMALE TEACHERS

*Kasimova Ozoda Khudoynazarovna*

*Uzbekistan-Finland Pedagogical Institute, "Pedagogy" department, associate professor, Ph.D.*

### Abstract:

This article discusses the possibilities of developing students' logical thinking and different approaches to developing students' logical thinking skills.

**Keywords:** *logical thinking, elementary education, problem solving, critical thinking, decision-making, reflection, evaluation, technology, parental involvement, community involvement.*

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Logical thinking plays the main role in the cognitive development of students, and the role of female pedagogues is extremely important. Teaching students to think logically allows students to analyze information, make connections, draw conclusions, and solve complex problems. Therefore, it is important to educate and develop students' logical thinking skills. By providing a comprehensive overview of effective practices, especially by educators, teachers can gain insight into practical approaches that can be implemented in the classroom. Teaching students to use different strategies and methods, visual images, to work in mutual cooperation by pedagogues serves to develop students' logical thinking skills.

It is necessary to emphasize the participation of parents and the public in supporting the development of logical thinking of students. Parents help students reinforce logical thinking skills at home, and community organizations contribute to real-world experiences that require logical thinking. By exploring opportunities and strategies to develop students' logical thinking, educators and stakeholders should be armed with practical ideas and approaches that can be implemented in their educational settings. Developing students' logical thinking skills should always be prioritized. Through collaborative efforts with young people, we can transform students into critical thinkers, effective problem solvers, and lifelong learners.

Developing logical thinking skills is critical to students' academic success. The benefits of incorporating logic tasks into teaching from an early age are many. However, there is still controversy surrounding the most effective instructional strategies and sequences for elementary students. The use of visuals, cooperative learning, analogical thinking, error analysis, interdisciplinary approaches, real-life problem solving, reasoning, evaluation, technology integration, parent and community support are effective in developing students' logical thinking skills. will give.

Opportunities to develop students' logical thinking are huge and crucial to their cognitive growth and academic success. Helps students to reflect on their logical thinking strategies, identify strengths, and set goals for improvement. There are several key topics and strategies that have been found to be effective in developing students' logical thinking skills. These topics include scaffolding and guided practice, use of visuals, collaborative learning, convergent thinking, error analysis, interdisciplinary approaches, real-life problem solving, reflection, assessment, technology integration, and parent and community engagement. contains z.

### **Methods:**

**Scaffolding and Guided Practice:** **Scaffolding** refers to structured support provided by teachers to help students develop their logical thinking skills . This may include breaking complex tasks into manageable steps, giving instructions, and gradually reducing assistance as students become more proficient. Students receive direct instruction and guided opportunities to apply logical reasoning strategies.

**Visuals:** Using visuals such as charts, diagrams, and graphic organizers can help students visualize and organize information. Visuals enhance students' ability to recognize patterns, make connections, and make logical inferences.

**Cooperative Learning:** By engaging students in cooperative learning activities, students develop logical thinking as they collaborate, discuss ideas, and solve problems together. Working in groups allows students to develop logical thinking through exchange of ideas, critical thinking, dialogue and collaboration.

**Analogical Reasoning:** Analogical thinking involves finding similarities and relationships between different concepts or situations. By engaging students in analogical thinking tasks such as identifying commonalities or making connections, they develop the ability to transfer their logical thinking skills to new contexts.

**Analyzing mistakes:** Encouraging students to analyze and learn from their mistakes develops logical thinking skills. Learners can examine their thought processes, identify misconceptions, and revise their thinking to improve their reasoning.

**Interdisciplinary Approaches:** Integrating reasoning across disciplines helps students understand the application and relevance of reasoning in different contexts. By engaging in interdisciplinary activities, students develop a holistic understanding of logical thinking and how it relates to different disciplines.

**Real-Life Problem Solving:** Providing authentic and meaningful problem-solving experiences allows students to apply their logical thinking skills to real-life situations. These experiences encourage students to analyze problems, consider different perspectives, and propose logical solutions.

**Reflection:** Reflection activities such as journaling or group discussion allow students to think metacognitively about logical thought processes. Reflection helps students identify strengths, areas for improvement, and strategies that increase their logical thinking skills.

**Assessment:** Using a variety of assessment methods such as practice tasks, portfolios and open-ended questions allows students to assess their logical thinking skills. Assessment should focus on students' ability to analyze, reason, and justify their thought processes.

**Technology Integration:** The use of technology tools such as educational programs, simulations, and online resources create opportunities for interactive and engaging logical thinking experiences. Technology can help students practice logical thinking skills, solve puzzles, and participate in virtual problem-solving scenarios. Parent and Community Involvement: Parent and community involvement in the development of logical thinking enhances the learning experience of students.

Providing resources, workshops, and engaging parents and community organizations in reasoning activities will strengthen the home-school partnership and reinforce the importance of reasoning skills. The above-mentioned methods provide a basis for pedagogues to implement effective strategies and approaches to develop students' logical thinking. By incorporating these methods into teaching practice, educators can create a stimulating and supportive learning environment that fosters students' logical thinking skills.

Developing students' ability to think logically is a multifaceted task. By implementing the discussed strategies and approaches, female educators develop students' logical thinking skills. As a result, the teacher can create a classroom environment in which the ability to think logically is enriched. Through consistent practice, support, and participation, students can become proficient logical thinkers equipped with skills essential for academic success and lifelong learning.

### **List of references:**

1. Dilova N.G. (2021). O'qituvchi-o'quvchi hamkorligini vujudga keltirishning pedagogik ahamiyati. *Science and education*. Vol. 2, Issue 10, 567-576 betlar.
2. Rahmatova F. A., Akramova Z. B. BOSHLANG'ICH SINIF O'QUVCHILARINING MANTIQUIY TAFAKKURLARINI SHAKLLANTIRISHNING PSIXOLOGIK XUSUSIYATLARI //INTEGRATION OF SCIENCE, EDUCATION AND PRACTICE. *SCIENTIFIC-METHODICAL JOURNAL*. – 2022. – T. 3– №. 4. – C. 133-137.
3. Akramova Z. BOSHLANG'ICH SINIF O'QUVCHILARINING MANTIQUIY TAFAKKURLARINI RIVOJLANTIRISH METODIKASI //Eurasian Journal of Academic Research. – 2022. – T. 2. – №. 13. – C. 417-422.
4. KHUDOYNazarovna, K. O. (2022). THE TECHNOLOGY OF ORGANIZING EDUCATIONAL ACTIVITIES FOR THE FORMATION OF THE PERSONAL SPIRITUALITY OF THE FUTURE TEACHER. *International Journal of Philosophical Studies and Social Sciences*, 2(3), 278-287.
5. Худойназаровна, К. О., & Хусенова, М. Н. (2022). МИЛЛИЙ ФАЗИЛАТЛАРНИ ШАКЛЛАНТИРИШ ТЕХНОЛОГИЯСИНИНГ ТАЛАБА-ҚИЗЛАРНИНГ ҲАЁТИДАГИ ЎРНИ. *Gospodarka i Innowacje*, 23, 297-302.
6. Xudoynazarovna, Q. O. (2022). PEDAGOG XOTIN-QIZLARINING TALABALAR XULQ-ATVORIGA TA'SIR ETUVCHI OMILLARNI TUSHUNISHI: SAMARALI O'QITISH KALITI. *BARQARORLIK VA YETAKCHI TADQIQOTLAR ONLAYN ILMIY JURNALI*, 2(4), 272-278.
7. Xudoynazarovna, Q. O. (2022). The Role of Innovative Technologies in the Quality Organization of the Educational Process of Female Teachers. *Vital Annex: International Journal of Novel Research in Advanced Sciences*, 1(6), 133-136.
8. Xudoynazarovna, Q. O. (2022). INCREASING SOCIAL AND POLITICAL ACTIVITY OF WOMEN IN OUR COUNTRY. *TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI*, 2(12), 249-255.
9. KHUDOYNazarovna, K. O., SEVARA, K., & RUKHSORA, M. (2022). STUDYING THE PSYCHOLOGICAL BASIS OF NATIONAL CONCEPT OF PERSONALITY. *International Journal of Philosophical Studies and Social Sciences*, 2(3), 265-271.
10. Khudoynazarovna, K. O. (2022). The Impact of Negative Facts on the Spiritual Appearance of Girls is A Problem. *Eurasian Scientific Herald*, 8, 281-285.

11. Xudoynazarovna, Q. O. Bobomurod o'g'li, BB, & Jaloliddin O'roz o'g, N.(2022). *Increasing the Social Activity of Female Teachers is the Need of the Hour. Vital Annex: International Journal of Novel Research in Advanced Sciences*, 1(6), 137-139.
12. Xudoynazarovna, Q. O., & Azamat o'g'li, N. S. (2023). Development of Teachers' Moral Competence is the Demand of the Times. *AMERICAN JOURNAL OF SCIENCE AND LEARNING FOR DEVELOPMENT*, 2(5), 57-59.
13. Qosimova, O. (2023). TECHNOLOGY FOR INCREASING THE SOCIAL ACTIVITY OF TEACHERS. *International Bulletin of Medical Sciences and Clinical Research*, 3(5), 177-179.
14. Касимова, О. Х. (2023). Роль Инновационных Технологий В Качественной Организации Образовательного Процесса Женщин-Педагогов. *Research Journal of Trauma and Disability Studies*, 2(12), 397-401.
15. Касимова, О. Х. (2023). Роль Женщин И Девушек-Педагогов В Развитии Мышления Молодежи. *Research Journal of Trauma and Disability Studies*, 2(12), 389-392.
16. Касимова, О. Х. (2023). Повышение Социальной Активности Женщин-Учителей–Веление Времени. *Research Journal of Trauma and Disability Studies*, 2(12), 393-396.
17. Xudoynazarovna, Q. O., & Sunnatillo o'g'li, V. H. (2022). The Teacher is National in Increasing the Social Activity of Women and the Combination of Foreign Experience. *Vital Annex: International Journal of Novel Research in Advanced Sciences*, 1(6), 129-132.
18. Xudoynazarovna, Q. O., Bobomurod o'g'li, B. B., & Jaloliddin O'roz o'g, N. (2022). Increasing the Social Activity of Female Teachers is the Need of the Hour. *Vital Annex: International Journal of Novel Research in Advanced Sciences*, 1(6), 137-139.
19. Xudoynazarovna, Q. O., Bobomurod o'g'li, B. B., & Jaloliddin O'roz o'g, N. (2022). Increasing the Social Activity of Female Teachers is the Need of the Hour. *Vital Annex: International Journal of Novel Research in Advanced Sciences*, 1(6), 137-139.
20. Qosimova, O., & Mamarasulov, U. (2022). THE ROLE OF PEDAGOGIC WOMEN AND GIRLS IN THE DEVELOPMENT OF THINKING OF YOUNG PEOPLE. *Science and innovation*, 1(B8), 2392-2397.
21. Ithomjonova S. T., Ochilova F. B. BURNOUT SYNDROME AS A PSYCHOLOGICAL PROBLEM //E Conference Zone. – 2022. – С. 41-42.
22. Ochilova F. B. Ways to correct the effect of mental and emotional disorders on the child's personality in family relations //Mental Enlightenment Scientific-Methodological Journal. – 2022. – Т. 2022. – №. 3. – С. 202-212.
23. Bakhridinovna, O. F. (2022). The role of ethnic and national values in the formation of intergenerational relations in social psychology.
24. Maxsidin o'g'li N. F. UMUMTA'LIM O'QUVCHILARINI IJTIMOIIY KOMPETENTLIGINI RIVOJLANTIRISHDA INTERFAOL TA'LIM METODLARINING AHAMIYATI //Uzbek Scholar Journal. – 2022. – Т. 5. – С. 215-218.
25. Maxsidin o'g'li N. F. МАКТАВ О'QUVCHILARINING IJTIMOIIY-MADYANIY KOMPETENSIYALARINI RIVOJLANTIRISH //Uzbek Scholar Journal. – 2022. – Т. 5. – С. 219-221.
26. Касимова Озода Худойназаровна, & Нормакматова Адолат Шавкат қизи. (2023). Повышение Социальной Активности Женщин-Учителей – Веление Времени. *Research Journal of Trauma and Disability Studies*, 2(12), 393–396. Retrieved from <http://journals.academiczone.net/index.php/rjtds/article/view/1721>

27. Касимова Озода Худойназаровна, & Яндашова Дилшода Одилжон кизи. (2023). Роль Женщин И Девушек-Педагогов В Развитии Мышления Молодежи. *Research Journal of Trauma and Disability Studies*, 2(12), 389–392. Retrieved from <http://journals.academiczone.net/index.php/rjtds/article/view/1720>
28. Касимова Озода Худойназаровна, & Холмунинова Васида Хамдам кизи. (2023). Роль Инновационных Технологий В Качественной Организации Образовательного Процесса Женщин-Педагогов. *Research Journal of Trauma and Disability Studies*, 2(12), 397–401. Retrieved from <http://journals.academiczone.net/index.php/rjtds/article/view/1722>