

Development of Logical Thinking in Elementary Mathematics Classes

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ABSTRACT

This article discusses the methodology of forming logical thinking in primary school. The concept of "Logical thinking" is widely covered in primary education. In the article, many examples aimed at developing logical thinking are presented based on evidence.

KEYWORDS: *logical thinking, logic, logicity, logical task, primary education*

How to cite this paper: Ibrohimova Mohichehra Furqat Qizi "Development of Logical Thinking in Elementary Mathematics Classes" Published in International Journal of Trend in Scientific Research and Development (ijtsrd), ISSN: 2456-6470, Volume-6 | Issue-6, October 2022, pp.1446-1450, URL: www.ijtsrd.com/papers/ijtsrd52099.pdf



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I. INTRODUCTION:

After gaining independence, the Republic of Uzbekistan, especially on the threshold of the XXI century, pays more attention to the socio-economic, spiritual and educational spheres. Many areas are developing and prospering. It should be noted that it is no secret that today more attention is paid to education. In the context of developing Uzbekistan, which is carrying out reforms in the socio-economic, material and spiritual spheres, the growing need for broad-minded, logical-minded youth is a requirement of the times. Because only people with a broad mind and a diverse outlook will be able to ensure the development of society.

It is important to develop the logical thinking of primary school students. Because at a young school age, the conscious activity of students is a thirst for knowledge. At this age, students will have the opportunity to increase the knowledge, morals, memory, stability of attention, which they need to learn from the outside. It is at this age that the development of logical thinking in students is the main task of the primary school teacher. At this age, it

is necessary to guide primary school students and increase their interest in science, technology and other professions. It is important to form a sense of patriotism in the hearts of primary school students in order to inspire them, increase their interest in the profession, to look to the future with deep vision.

The development of logical thinking is associated with thinking as a way of perceiving reality, is formed in the primary school in the process of working with arithmetic operations, working on logical problems, conscious use of digital technologies in education, the organization of independent work.

Requirements for students by the teacher often do not serve to develop logical thinking. Focusing only on the content of knowledge in education leads to a decrease in the quality and effectiveness of education. However, only students with a wide range of logical thinking can independently acquire knowledge. That is why it is very important to develop logical thinking in primary school.

II. LITERATURE VIEW

The word "logic" is derived from Arabic and is an Arabic expression of the Greek word "logos", which means "thought", "word", "law". (encyclopedic dictionary of philosophy)

"Logic" means logic, logical basis, legitimacy, basicity. It is no secret that the basis for the development of logical thinking in primary school students is mathematics. Solving mathematical problems makes it easier for primary school students to think. It is important to develop logical thinking in primary school students. Because at a young school age, students acquire the basic knowledge they need. It is this knowledge that facilitates and serves as a program for future studies.

The doctoral dissertation "Didactic bases of formation of cognitive activity in primary school students" written by Doctor of Science, Professor of Nizami Tashkent State Pedagogical University "Ibragimov" is widely covered in the dissertation. explained.

It should be noted that the use of more logical tasks to develop logical thinking in primary school gives good results. To work on logical tasks, we refer to the textbooks of primary school.

III. Analysis and results

In the 1st grade math textbook, many topics are developed to develop students' mathematical thinking skills by finding similarities and differences, and developing thinking through comparisons. In particular, Chapter 1, entitled "Properties of Things," includes 10 lessons. All topics are similar and aimed at identifying differences, identifying differences through the relationship of things to each other.

This task describes the idea of dividing collections into sets according to their properties. These and similar assignments serve to broaden the thinking of 1st graders.

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Ask which of the items shown in the picture is shown one at a time.

In this case, the student's answer should be: -door, wall, chair, table, swing, cat, teapot, mother, daughter.

Examples of this kind have the character of developing logical thinking. Examples of this type are used by students in elementary school to solve logical puzzles to develop logical thinking.

In short, tasks that develop logical thinking are of great importance for primary school students. Because young people who think highly in all respects are the future of our Motherland.

List of used literature

After gaining independence, the Republic of Uzbekistan, especially on the threshold of the XXI century, pays more attention to the socio-economic, spiritual and educational spheres. Many areas are developing and prospering. It should be noted that it is no secret that today more attention is paid to education. In the context of developing Uzbekistan, which is carrying out reforms in the socio-economic, material and spiritual spheres, the growing need for broad-minded, logical-minded youth is a requirement of the times. Because only people with a broad mind and a diverse outlook will be able to ensure the development of society.

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IV. CONCLUSION

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REFERENCES:

[1] Jonpulatovna S. M., Qizi I. M. F. An integrated approach to the use of pedagogical technologies

in primary school mathematics //Middle European Scientific Bulletin. – 2021. – T. 8.

[2] Ibrohimova M. BOSHLANG'ICH SINFLAR MATEMATIKA DARSLARINI O'QITISHDA "DAY GAME" DAN FOYDALANISH //ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz). – 2021. – Т. 3. – №. 3. 3.

[3] Ibrohimova M. F. IMPROVING INTEGRATION IN TEACHING ARITHMETIC PRACTICES IN PRIMARY SCHOOL MATHEMATICS //УЧЕНЫЙ XXI ВЕКА. – С. 31.

[4] Jonpulatovna S. M., Qizi I. M. F. Improve Pupils' Knowledge and Personal Qualities Through Educational Tools in Elementary Mathematics Classes //Middle European Scientific Bulletin. – 2021. – Т. 5. Ibrohimova M. Boshlangich matematika darslarida arifmetik amallarni qo'llashda talim texnologiyalaridan foydalanish metodikasi //ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz). – 2021. – Т. 8. – №. 8.

[5] Ibrohimova Mohichehra Furqat qizi. Problems That Arise In the Classroom in the Educator and Their Optimal Solutions . European Journal of Innovation in Nonformal Education (EJINE) Volume 2 | Issue 2 | ISSN: 2795-8612

[6] Abdullayeva F. TA'LIM TIZIMI SIFATINI OSHIRISHDA PISA VA TIMSS KABI XALQARO TADQIQOTLARNING ROLI //ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz). – 2021. – Т. 3. – №. 3.

[7] Qurbonova S. N., Abdullayeva F. TARBIYA DARSLARIDA INTERFAOL METODLARDAN FOYDALANISH //Scientific progress. – 2021. – Т. 2. – №. 6. – С. 1030-1035.

[8] Nurillayevna A. F. Teaching Scientific Popular Articles in Mother Nili and Reading Literacy Courses //European journal of innovation in nonformal education. – 2022. – Т. 2. – №. 3. – С. 47-50.

[9] Бабаева, Ш. Б. (2022). МОДЕЛИРОВАНИЕ СВЯЗНЫХ ТЕКСТОВ ПРИ ИЗУЧЕНИИ РУССКОГО ЯЗЫКА НА ОСНОВЕ ТРАДИЦИОННЫХ ЦЕННОСТЕЙ РУССКОГО И УЗБЕКСКОГО НАРОДА. PEDAGOGS jurnali, 1(1), 109-110.

[10] Babaeva, B. S. (2021). The effect of Studying Morphology in Modeling Syntactic concepts in the lessons of the native Language in Primary

- Grades. Middle European Scientific Bulletin, 10.
- [11] HAMROYEVA M. BOSHLANG'ICH TA'LIMDA INNOVATSION YONDASHUV //ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu.uz). – 2021. – Т. 1. – №. 1.
- [12] Rasulovna H. M. THE LITERARY OF ANTHROPONYMS //Chief Editor.
- [13] Olloqova M. O. Intensive education and linguistic competence in mother tongue //ACADEMICIA: AN INTERNATIONAL MULTIDISCIPLINARY RESEARCH JOURNAL. – 2021. – Т. 11. – №. 1. – С. 580-587.
- [14] Olloqova O. M. ONA TILI DARSLARIDA INTENSIV TA'LIM TEXNOLOGIYALARIDAN FOYDALANISH //Scientific progress. – 2021. – Т. 2. – №. 6. – С. 1025-1029.
- [15] Omonova, D. N. Q. (2021). The Linguistic competence in language teaching based on Integrative Approach. In World science: problems and innovations (pp. 213-215).
- [16] Omonova, D. (2022). LINGVISTIK KOMPETENSIYALARNI RIVOJLANTIRISHDA MEDIA TA'LIM VOSITALARDAN FOYDALANISH. PEDAGOGS jurnali, 1(1), 182-183.
- [17] Kodirova S. A. IDEOLOGICAL AND ARTISTIC FEATURES OF «ZARBULMASAL» //Theoretical & Applied Science. – 2020. – №. 10. – С. 318-320.
- [18] Abdurakhimovna K. S. Idealistic Study of Proverbs //International Journal on Integrated Education. – Т. 3. – №. 11. – С. 201-202.
- [19] Qosimov, F. M., & Qosimova, M. M. (2022). MATEMATIKADAN IJODIY O'QUV TOPSHIRIQLARINING METODIK XUSUSIYATLARI. BOSHQARUV VA ETIKA QOIDALARI ONLAYN ILMIY JURNALI, 2(2), 206-211.
- [20] Курбанова, III. H. (2020). Преподавание математики в начальных классах. In European research: innovation in science, education and technology (pp. 97-100).
- [21] Komilovna R. N. METHODS AND TOOLS OF EDUCATIONAL TECHNOLOGIES IN THE FORMATION OF THE CONCEPT OF FIGURE FACE IN STUDENTS. – 2021.
- [22] Radzabova K. N. Pedagogical Conditions for Improving Research Activity in Future Primary School Teachers. – 2021.
- [23] Gaybulloevna S. M. Urgent Problems of the Quality of the Educational Environment //Pindus Journal of Culture, Literature, and ELT. – 2022. – Т. 2. – №. 2. – С. 152-154.
- [24] Садуллоева М. Г. Гуманизация отношений в системе «Учитель-учащийся»-установление связей сотрудничества //Достижения науки и образования. – 2019. – №. 8-3 (49). – С. 103-104.
- [25] Tog'ayeva U. IMPROVING THE MODULE" MOTHER TONGUE TEACHING METHOD" IN PROJECT EDUCATIONAL INSTRUCTIONS //ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu.uz). – 2020. – Т. 2. – №. 2.
- [26] Tog'ayeva U. «ONA TILI O'QITISH METODIKASI» MODULINI O'QITISHDA AXBOROT KOMMUNIKATSIYA TEXNOLOGIYALARIDAN FOYDALANISH //ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu.uz). – 2021. – Т. 1. – №. 1.
- [27] Xayrulloeva D. System of Creative Exercises and Tasks in Primary School Mother Tongue Textbooks //ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu.uz). – 2021. – Т. 7. – №. 7.
- [28] Xayrullayeva D. N. Q. BOSHLANG'ICH SINIF ONA TILI DARSLIKLARIDAGI IJODIY MASHQ VA TOPSHIRIQLAR TIZIMI //Scientific progress. – 2021. – Т. 2. – №. 7. – С. 1235-1242.
- [29] Yunusovna Y. S. METHODOLOGY OF FORMATION OF GRAPHIC SKILLS IN PRIMARY SCHOOL STUDENTS //EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE. – 2022. – Т. 2. – №. 4. – С. 129-133.
- [30] YUSUFZODA S. BOSHLANG'ICH SINIF HUSNIXAT DARSLARINI INNOVATSION TEXNOLOGIYALAR ASOSIDA TASHKIL ETISH //ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu.uz). – 2021. – Т. 8. – №. 8.
- [31] Xoliqulovich J. R. Influence of Sadridin Aini life and works in spiritual and moral development of students //Middle European Scientific Bulletin. – 2021. – Т. 11.

- [32] Jobirovich Y. M. EFFECTIVENESS OF USING DIGITAL TECHNOLOGIES IN EDUCATIONAL SYSTEM //EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE. – 2022. – Т. 2. – №. 4. – С. 124-128.
- [33] Jobirovich, Y. M. (2022). TOOLS OF USING DIGITAL TECHNOLOGIES IN PRIMARY EDUCATIONAL COURSES. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 2(4), 119-123.
- [34] Сафарова, Н. (2020). MAISHIY O'YINLARDA IJTIMOIIY HAYOTNING BADIY IFODASI. *Образование и инновационные исследования международный научно-методический журнал*, (1).
- [35] Sayfullayev, G. (2021). Methods of teaching younger students the ability to solve cognitive tasks of environmental protection. *ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu.uz)*, 5(5).

