ETHIOPIAN INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY RESEARCH

eISSN: 2349-5715 pISSN: 2349-5707

Volume: 11, Issue 03, March-2024 SJIF 2019: 4.702 2020: 4.737 2021: 5.071 2022: 4.919 2023: 6.980 2024: 7,662

MATHEMATICS LESSONS ARE THE BASIS OF THE FORMATION OF STUDENTS' LOGICAL THINKING

Sharipova Mehriniso Hoshim qizi

Student of Stage 2 of the Termez State Pedagogical Institute

Annotation: In elementary school mathematics lessons , this article will talk about how the formation of logical and critical thinking in a student is about teaching him to think critically, what opportunities the formation of logical thinking gives students .

Keywords: Mathematics, elementary school, logical and critical thinking, simple tasks, simple and complex tasks, exactingness, hard work .

Mathematics is the basis of knowledge of the whole being tevarak is important in revealing the specific laws of events and phenomena that are happening around us and in their development , in the development of Science and technology . It is known that mathematics sharpens the human mind, develops attention , teaches to be persistent and strong-willed in the way of each intended goal , to carry out each work algorithmically with an orderly discipline, and most importantly, to reason logically and to think critically.In this regard, the president of the Republic of Uzbekistan Sh.M.Mirziyoyev argues that " mathematics is the basis for all subjects. A child who knows this science well will grow up intelligent, broad-minded, successfully develop in any field ".

Currently, special attention is paid to the formation of the educational system of mathematics in our country. Including the concept of development of the people's educational system of the Republic of Uzbekistan until 2030, adopted on the basis of the decree of the president of the Republic of Uzbekistan PF - 5712 of April 29, 2019.

July 9, 2019, " state support for further development of Mathematics Education and Sciences , as well as the development of the Academy of Sciences of Uzbekistan V. I. Decision of PQ - 4387" on measures to radically improve the activities of the Romanovsky Institute of mathematics , A number of significant tasks for the comprehensive organization and development of Mathematics Science and education in the appeal to the Supreme Assembly of January 24, 2020 were developed in order to ensure the implementation of the tasks set out in order to comprehensively improve mathematics education and bring it to a new qualitative stage .. Mathematics textbooks, now developed on the basis of the national curriculum, are also enriched with examples and issues that encourage students to think more logically and critically. Solving mathematical problems is an important component of teaching mathematics .It is unthinkable to master mathematics without solving mathematical problems. The most important way to put mathematics into practice is to solve mathematical problems.During the solution of issues , students develop an interest in the subject , in general , independence , freedom , exactingness, hard work, aspiration to the goal. Life issues help to expand logical thinking and the scope of thought in students.

In textbooks, logical issues are mainly given in accordance with the age characteristic of students.As the reader performs logical tasks , observing the task, he draws certain judgments and conclusions. Determines whether the reasoning is real (true) or false, he also thinks logically critically.It is important for students to develop the ability to think critically while developing the ability to think logically during the course of the lesson.

The criteria for the formation of logical thinking in mathematics lessons are as follows

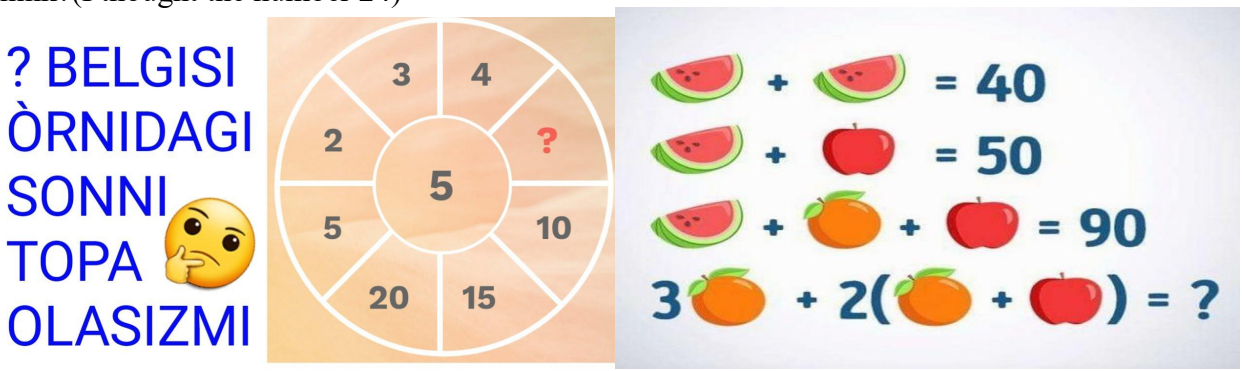
- independence of thinking in the reader
- speed and strength of mastering educational materials

eISSN: 2349-5715 pISSN: 2349-5707
Volume: 11, Issue 03, March-2024 SJIF 2019: 4.702 2020: 4.737 2021: 5.071 2022: 4.919 2023: 6.980 2024: 7,662

- quickness in thinking non-standard assignments
- criticality in thinking

In order to form logical thinking in students, it is necessary to work with issues that encourage more logical thinking . Below are examples of related issues:

1. What to do so that the Five Guys stay in the same boot ? (Each of them needs to solve one boot)
2.The cock comes out 3kg standing on both legs on the scales . How many kg come out when the rooster is measured standing on one leg ? (3kg
3. In what month do people speak the least? (In February because February is shorter than in other months)
4. Is a kilo stone heavy or a kilo of cotton? (Both equal)
5. I thought of a number, adding a quarter to half of it would yield 18. Question What number did I think?(I thought the number 24)



We also find many similar logical assignments in the textbook. Such issues are of great help to draw the attention of students to the lesson and increase their creative activity.

In the development of logical and critical thinking in elementary grades, it is advisable to use various didactic games , problematic question tasks , various puzzles based on the age and individual nature of children during the lesson

The formation of logical thinking skills gives the student a number of opportunities. These include :

- the process of thinking in students is accelerated ;
- the interest of students in acquiring knowledge , mastering new information increases ;
- states his views through evidence ;
- they are able to apply the knowledge and skills acquired in their practical activities and provide similar opportunities .

In conclusion, the role of mathematics lessons in the formation of logical and critical thinking of students is of great importance. Knowing the Omis that influence the formation of logical thinking in mathematics lessons and being able to assess their degree of influence requires a special pedagogical skill from the teacher.

REFERENCES:

1.O‘zbekiston Respublikasi Prezidentining 2019- yil 29- apreldagi PF- 5712 - sonli Farmoni " O‘zbekiston Respublikasi Xalq ta'lim tizimini 2030- yilgacha rivojlantirish konsepsiyasi ".

2. 2019- yil 9- iyuldagi " Matematika ta’limi va fanlarini yanada rivojlantirishni davlat tomonidan qo'llab quvvatlash , shuningdek , O‘zbekiston Fanlar Akademiyasining V. I. Romanovskiy nomidagi matematika instituti faoliyatini tubdan takomillashtirish chora tadbirlari to‘g‘risida" gi PQ- 4387- sonli Qarori

eISSN: 2349-5715 pISSN: 2349-5707
Volume: 11, Issue 03, March-2024 SJIF 2019: 4.702 2020: 4.737 2021: 5.071 2022: 4.919 2023: 6.980 2024: 7,662

3.Matematika sohasidagi ta’lim sifatini oshirish va ilmiy tadqiqotlarni rivojlantirish chora tadbirlari to‘g‘risida . O‘zbekiston Respublikasi Prezidentining PQ-4708-son 07.05.2020 Qarori .
4. Safarova . R. G . va boshqa. O‘quvchilarning bilish faoliyatini kengaytirishga yo'naltirilgan o‘quv vaziyatlarini fanlar kesimida loyihalash .- T: Fan va texnologiya nashriyoti . 2013.
5. Abduhalimova Y. (2023). BO‘LAJAK BOSHLANG‘ICH SINF O‘QITUVCHILARINING KREATIV YONDASHUVINI SHAKLLANTIRISH YO‘LLARI. Interpretation and Researches, 2(1).
6. Абдухалимова Ю. (2022). Педагогическая подготовка будущих учителей в воспитании самостоятельно мыслящих, творческих лиц в процессе непрерывного образования. Общество и инновации, 3(8/S), 103–108.
7. Bo‘lajak o‘qituvchilarni kasbiy kompetentlikka tayyorlash hozirgi davrning dolzarb muammosi Y.Abduhalimova - TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY …, 2022
8. Холиқова П. А. Қ. МИЛЛИЙ-МАЪНАВИЙ МЕРОСНИ ЭЪЗОЗЛАШ ВА УНИНГ МАЗМУН МОҲИЯТИНИ ЁШЛАР ОНГИГА СИНГДИРИШ //Academic research in educational sciences. – 2023. – Т. 5. – №. NUU Conference 2. – С. 842-847.
9. Shabbazova, D. (2023). PSYCHOLOGICAL-PEDAGOGICAL FACTORS OF IMPROVING THE LITERACY OF ELEMENTARY SCHOOL STUDENTS BASED ON A PERSONAL VALUE APPROACH. Academia Science Repository, 4(05), 12-19.
10. Ruzikulovna, S. D. (2023). Analysis of the Level of Valuable Approach to Primary Class Students. Web of Semantic: Universal Journal on Innovative Education, 2(4), 227-230.
11. Shabbazova, D. (2023). BOSHLANG ‘ICH SINF O ‘QUVCHILARIGA QADRIYATLI YONDASHUVLAR DARAJASINI TASHHIS QILISH METODIKASI. Interpretation and researches, 1(1).
12. Shabbazova , D. (2023). BOSHLANG‘ICH SINF O‘QUVCHILARI SAVODXONLIGINI OSHIRISHDA SHAXSIY QADRYATLI YONDASHUV. MONOGRAFIYA. Termiz-2023. Interpretation and Researches, 1(1)
13. Khalikova P. THE FORMATION OF SPIRITUAL AND MORAL VIRTUES IN THE EDUCATION OF A PERFECT HUMAN BEING IN THE WORKS OF ORIENTAL THINKERS //Science and innovation. – 2023. – Т. 2. – №. B5. – С. 355-358.
14. Mo’minov Isroil and Islom Eshmatov. "BOSHLANG’INCH SINFLARDA INTERFAOL METODLAR." Академические исследования в современной науке 2.15 (2023): 70-75.
15. Butayorova M. K. THE IMPORTANCE OF POSITIVE RELATIONSHIPS IN THE FORMATION OF THE PERSONALITY OF PRIMARY SCHOOL STUDENTS //Science and Innovation. – 2023. – Т. 2. – №. 11. – С. 121-125
16. Boshlang’ich ta’lim nazariyasi kafedrasi o‘qituvchisi Sh.S.O’roqova Central Asian Journal of Theoretical and Applied Sciences (https://cajotas.centralasianstudies.org/index.php/CAJOTAS)2023
17. Sayfidinovich A. S., Oripovna S. S. Use of the scientific and pedagogical heritage of abu bakr varroq termezi in the spiritual and moral education of students //World Bulletin of Social Sciences. – 2022. – Т. 8. – С. 110-114.
18.Oripovna S. S. Issues of spiritual and moral education of youth in the works of abdurahmon Jami. – 2022.
19. Turobov M. O‘QUVCHILARINING MATEMATIK QOBILIYATLARINI RIVOJLANTIRISHDA IDROK ETISHNI RIVOJLANTIRISH KOMPONENTI //Interpretation and researches. – 2024. – Т. 1. – №. 1
20. Muminova , U. (2023). THE RELATION OF THE TURKISH WORDS IN "MAHBUB ULQULUB" TO THE CURRENT UZBEKI LITERARY LANGUAGE. Scientifice ISSN: 2349-

eISSN: 2349-5715 pISSN: 2349-5707
Volume: 11, Issue 03, March-2024 SJIF 2019: 4.702 2020: 4.737 2021: 5.071 2022: 4.919 2023: 6.980 2024: 7,662

5715 pISSN: 2349-5707 Volume: 11, Issue 02, Fev-2024 SJIF 2019: 4.702 2020: 4.737 2021: 5.071 2022: 4.919 2023: 6.

21. Karshiyevna M. U. et al. Forming Concepts of Grammar and Word Formation in Primary Grades //Web of Semantic: Universal Journal on Innovative Education. – 2023. – Т. 2. – №. 4. – С. 164-168.

22. Davlatmamatovna H. G., Qarshiyevna M. U. Popular Scientific Texts in Elementary School Textbooks and Methods of their Study //Web of Semantic:Universal Journal on Innovative Education. – 2023. – Т. 2. – №. 4. – С. 125-128

23. Najibullo Sayfullayev. (2023). TERMS ARE AN INDIVIDUABLE WEALTH OF OUR LANGUAGE. Ethiopian International Journal of Multidisciplinary Research, 10(10), 168–170.