

Volume 11, Issue 11, November 2022



Impact Factor: 8.118







| e-ISSN: 2319-8753, p-ISSN: 2347-6710| <u>www.ijirset.com</u> | Impact Factor: 8.118|

||Volume 11, Issue 11, November 2022||

| DOI:10.15680/IJIRSET.2022.1111071|

Extracurricular And Elective Classes In Mathematics

O.Y.Mahmudova

Teacher of the Department of Mathematics, Uzbekistan

Extracurricular activities in mathematics are of great importance for the development of students 'abilities, increasing their interest in science. He sets himself up for the following goals:

preparation of students for educational and labor activities;

ensuring that students master the basic methods of activity and thinking in a specific scientific field;

increasing students 'interest in science;

development of students 'abilities;

ensuring that students ' life and activities at school are meaningful.

When determining extracurricular activities in mathematics, there are some general requirements for the organization of the lesson and interaction with other types in order to develop their useful style.

Consistency in the content of lessons in mathematics, extracurricular activities and forms and methods of organizing voluntary lessons should be determined by the goals of teaching mathematics, the comprehensive development and education of students.

Taking into account the goals and objectives of extracurricular activities in mathematics described above, we will consider the methodological and special principles characteristic of determining and organizing the nature of extracurricular activities.

The principles of using historical material in teaching mathematics are well accepted in a comprehensive school. Historical material is well remembered. The history of the development of mathematics serves the formation of basic ideas and methods. The history of science allows you to see its acting power, to observe the interconnection of the scientific mind and practical activity of a person. This contributes to the formation of students ' view and scientific thinking of the dialectical world.

In mathematics lessons, we will cite several types of use of historical materials: an episodic excursion into the history of Mathematics: first methods, historical tasks, a review of the life and work of outstanding scientists in the field of mathematics, thoughts about mathematics, as well as the opinion of great scientists in the field of mathematics.

In order to form a patriotic personality in students, it is necessary to familiarize themselves with the scientific results of the great scientists of the Ancient East (al Khorezmi; al Beruni). Children will be interested to hear the development of mathematics in Uzbekistan.

One of the basic principles of teaching mathematics and organizing extracurricular activities is the use of computers for solving, modeling, structuring and modeling creative tasks. Solving such tasks will improve the skills of independent work in students.

Extracurricular activities are conducted by teachers with students interested in mathematics. This work is planned by the teacher and clarified as it should. Forms of extracurricular activities include: circles, disputs, concourses, nights, lectees, wall newspapers.

Circle. T o'garak in mathematics it is one of the active and consequential extracurricular activities. On the basis of the Circle lies the principle of discretion. Usually circles are organized for well-read readers. But sometimes students who do not read well express a message and achieve good results in a circle. It is only necessary to pay attention to such readers. It is necessary to try to consolidate their interest in mathematics. You can divide the work of the circle into 2 directions. The first is mainly focused on the development of thinking, the formation of an initial interest in mathematics. The second is to deepen knowledge in mathematics.

Excursions. Readers are very interested in excursions. Forms Hotira and tassavir.



| e-ISSN: 2319-8753, p-ISSN: 2347-6710| www.ijirset.com | Impact Factor: 8.118|

||Volume 11, Issue 11, November 2022||

| DOI:10.15680/IJIRSET.2022.1111071|

Press. It is known that the education of students with the school Press is the main direction of extracurricular activities. It is carried out under the influence of the content of school newspapers and the active participation of students in the process of newspaper production as a correspondent, redkollegia and correspondent.

Night and concourses. Night and concourses are of great importance when working with students. Students are interested in various concourses. As a concourse in mathematics:

- "What?, Where?, When?",
- It is possible to cite the Games" competition of interesting mathematical games".

Olympics. The Olympiad in mathematics has its benefits only if it is the last stage of the complex of extracurricular activities, as in other subjects. If the Olympics return the topics covered, they will not be able to interest readers. The Olympics will not be the end of the whole year, but will provide a good opportunity to master and develop the topics covered. Having set himself the goal of participating in the Olympiad in mathematics, the student goes with great desire to solve the issues of the Olympiad in mathematics.

The Olympics also have educational tasks: teaches domestication, discipline, willpower, and self-examination in a separate learning process.

The following questions will help to further strengthen knowledge in this area.

LITERATURE

- 1. Dilnoza, Djamoliddinova. "Comments on Studying Linguopoetic Properties of Terms in a Textual Aspect." *ANGLISTICUM. Journal of the Association-Institute for English Language and American Studies* 7.5 (2018): 37-44.
- 2. Mikhojiddinovna, Jamolitdinova Dilnoza. "The history of the study of terminology in Uzbek linguistics." *ANGLISTICUM. Journal of the Association-Institute for English Language and American Studies* 8.8 (2019): 50-56.
- 3. Mikhojiddinovna, J. D. "THE HISTORY OF THE STUDY OF TERMINOLOGY IN UZBEK LINGUISTICS. ANGLISTICUM." *Journal of the Association-Institute for English Language and American Studies* 8.8 (2019): 50-56.
- 4. Jamoliddinova, D. M. "Semantic-grammatical and lingvopoetic features of parentheses units in artistic speech." *Tashkent: Fan* (2011): 93.
- 5. Jamoliddinova, Dilnoza Mirxojiddinovna. "TERMINOLOGY AND PROFESSIONAL VOCABULARY." *Scientific Bulletin of Namangan State University* 2.10 (2020): 294-298.
- 6. Джамолиддинова, Дильноза Мирходжиддиновна. "ТЕРМИН ВА СЎЗНИНГ ФАРҚЛИ ХУСУСИЯТЛАРИ." *МЕЖДУНАРОДНЫЙ ЖУРНАЛ ИСКУССТВО СЛОВА* 3.5 (2020).
- 7. Jamoliddinova, D. M. "Semantic-grammatical and lingvopoetic features of parentheses units in artistic speech." *Tashkent: Fan* (2011): 93.
- 8. Джамолиддинова, Дильноза Мирходжиддиновна. "ТЕРМИН ВА СЎЗНИНГ ФАРҚЛИ ХУСУСИЯТЛАРИ." *МЕЖДУНАРОДНЫЙ ЖУРНАЛ ИСКУССТВО СЛОВА* 3.5 (2020).
- 9. Jamoliddinova, Dilnoza. "The poetical actualization of terms in the literary works (As the sample of the works of askad mukhtar, abdullah kahhor and ulmas umarbekov)." *International Journal of Psychosocial Rehabilitation* 24.6 (2020): 2597-2602.
- 10. Shakirjanovich, Kalandarov Shukhratjon. "Poetic Use of Euphemistic Meaning Regarding Linguo-Cultural Issues." *ANGLISTICUM. Journal of the Association-Institute for English Language and American Studies* 5.12 (2017): 26-31.
- 11. КАЛАНДАРОВ, ШУХРАТЖОН ШОКИРЖОНОВИЧ. "НАЦИОНАЛЬНО-КУЛЬТУРНАЯ СЕМЕМА В ЛЕКСЕМАХ УЗБЕКСКОГО ЯЗЫКА." *БУДУЩЕЕ НАУКИ-2015*. 2015.
- 12. Isaqov, Z. "On the relationship between independent and auxiliary parts of speech in Uzbek language." *European Journal of Molecular and Clinical Medicine* 7.3 (2020): 3661-3664.
- 13. Solijonovich, Zokirjon Isaqov. "Gender Characteristics of Kinship-Based Personal Names in Different System Languages." *Miasto Przyszłości* 27 (2022): 40-42.
- 14. Solijonovich, Zokirjon Isaqov. "Linguistic and Cultural Characteristics of the Concept of Friendship in Proverbs." *Vital Annex: International Journal of Novel Research in Advanced Sciences* 1.3 (2022): 30-34.
- 15. Isakov, Z. S., and D. B. Olimova. "The Educational Importance of Proverbs in the Formation of Spiritual and Moral Characteristics in Students." *European journal of innovation in nonformal education* 1.2 (2021): 122-124.
- 16. Султонова, Ўғилхон Собиржоновна. "КИРИТИШ ВА КИРИТМА ТЕРМИНИ ХУСУСИДА АЙРИМ МУЛОҲАЗАЛАР." *Интернаука* 8.12 Часть 3 (2017): 62.



| e-ISSN: 2319-8753, p-ISSN: 2347-6710| www.ijirset.com | Impact Factor: 8.118|

Volume 11, Issue 11, November 2022

DOI:10.15680/IJIRSET.2022.1111071

- 17. Жамолиддинова, Д. М., and Ш. Р. Тожибоева. "THE SEMANTIC AND GRAMMATICAL PROPERTIES OF PARANTEZ." Учёный XXI века 4-1 (17) (2016): 67-68.
- 18. Zhamaliddinova, D. M., and Sh R. Tozhiboyeva. "THE SEMANTIC AND GRAMMATICAL PROPERTIES OF PARANTEZ." Ученый XXI века 4-1 (2016): 67-68.
- 19. Жамолиддинова, Дилноза Мирхожиддиновна, and Шарифахон Рустамовна Тожибоева. "СЕМАНТИКО-ГРАММАТИЧЕСКИЕ СВОЙСТВА ПАРАНТЕЗ." Ученый XXI века (2016): 68.
- 20. Рахманкулова, Нафиса Хасановна. "Исторические данные о числах и количестве." *INTERNATIONAL JOURNAL OF DISCOURSE ON INNOVATION, INTEGRATION AND EDUCATION* 2.2 (2021): 97-100.
- 21. Shoqosim oʻgʻli, Abdurahmonov Umidjon, Meliyeva Xusnida Xafizaliyevna, and Gʻofurov Toʻlqinjon. "MODERN DIDACTIC MEANS OF TEACHING MATHEMATICS IN SECONDARY SCHOOLS AND PROBLEM EDUCATIONAL TECHNOLOGY." Galaxy International Interdisciplinary Research Journal 10.4 (2022): 460-467.
- 22. Абдурахманов, Умиджон, Ормоной Тошматова, and Хуснида Мелиева. "Umumta'lim maktablarida matematika fanini o 'qitishning zamonaviy didaktik vositalari va muammoli ta'lim texnologiyasi." Общество и инновации 3.3/S (2022): 231-238.
- 23. Shoqosim oʻgʻli, Abduraxmonov Umidjon. "The importance of didactic games in teaching mathematics in secondary schools." Web of Scientist: International Scientific Research Journal 3.6 (2022): 1566-1570.
- 24. Mehmonaliyevich, Toshpulatov Azamat. "REFLECTIONS ABOUT MORPHOLOGICAL EXPRESSERS OF RESPECT AND DISRESPECT CONCEPTS." *ANGLISTICUM. Journal of the Association-Institute for English Language and American Studies* 9.2 (2020): 75-81.
- 25. Mehmonaliyevich, Toshpolatov Azamat. "Remarks on the pragmatic study of the ratio category." *Web of Scientist: International Scientific Research Journal* 3.7 (2022): 139-144.
- 26. Toshpolatov, Azamat Mehmonaliyevich. "A Pragmatic Study of the Ratio Category: Statement of the Problem." *Texas Journal of Philology, Culture and History* 8 (2022): 1-4.
- 27. UMAROVA, NARGIZA RUSTAMOVNA, and SIAQ YIGITALIYEVA. "Concept as a basic unit of cognitive linguistics." *THEORETICAL* & APPLIED SCIENCE Учредители: Теоретическая и прикладная наука, (9) (2021): 701-704.
- 28. Rustamovna, Umarova Nargiza, and Yigitaliyeva Shohsanam. "The realization of the concept of goodness in English and uzbek proverbs." *Web of Scientist: International Scientific Research Journal* 3.7 (2022): 148-152.
- 29. Normatov, Adham. "About the emergence of geometry." Web of Scientist: International Scientific Research Journal 3.7 (2022): 268-274.
- 30. Hamidova, Kamola Mamirovna. "On andijan polysynonym and its variants." ASIAN JOURNAL OF MULTIDIMENSIONAL RESEARCH 10.5 (2021): 661-664.
- 31. Muhammadalievich, Uluqov Nosirjon, and Hamidova Kamola Mamirovna. "ABOUT SYRDARYA HYDRONYM VARIANTS." Web of Scientist: International Scientific Research Journal 3.6 (2022): 1667-1670.
- 32. Mamirovna, Hamidova Kamola. "ОБ ИСТОРИЧЕСКИХ ИСТОЧНИКАХ ТОПОНИМИИ ФЕРГАНСКОЙ ДОЛИНЫ И ВАРИАНТАХ НЕКОТОРЫХ ТОПОНИМОВ." Gospodarka i Innowacje. (2022): 1-9.
- 33. Normatov, A. "SPATIAL OBJECTS." Spectrum Journal of Innovation, Reforms and Development 4 (2022): 586-590.
- 34. Shohista, Musayeva, and A. Normatov. "MATEMATIK INDUKSIYA METODI." *Yosh Tadqiqotchi Jurnali* 1.5 (2022): 346-350.
- 35. Normatov, Adham Abdullayevich, Rustam Mamasoliyevich Tolipov, and Shohistaxon Habibulla Qizi Musayeva. "MAKTABLARDA MATEMATIKA FANINI O 'QITISHNING DOLZARB MASALALARI." *Oriental renaissance: Innovative, educational, natural and social sciences* 2.5 (2022): 1068-1075.
- 36. Mashrabjonov, Ulugbek. "DEVELOPMENT OF STUDENTS'INTERESTS IN THE FIELD OF HUMANITIES EDUCATION." *Spectrum Journal of Innovation, Reforms and Development* 4 (2022): 533-537.
- 37. Roxataliyevna, Abdullayeva Nargiza, and Yormatova Shahnoza G'ulomovna. "Teaching Children Problem-Solving in Preschool." *Middle European Scientific Bulletin* 9 (2021).
- 38. Nizomiddinova, Dildora, and Ibrokhimova Vasilakhon. "ABOUT COMBINED TOPONYMS IN THE FORM" OT+ VERB" AND" VERB+ OT"." *Archive of Conferences*. Vol. 1. No. 1. 2020.
- 39. Rokhatalievna, Abdullayeva Nargiza, and Abdullayev Alibek Kadiraliyevich. "Didactic foundations of improving the creative activity of future mathematics teachers by means of information and communication technologies." *Emergent: Journal of Educational Discoveries and Lifelong Learning* 3.7 (2022): 1-5.
- 40. Rokhataliyeva, Abdullayeva Nargiza. "Teaching of mathematics on the basis of advanced international experiences." *Web of Scientist: International Scientific Research Journal* 3.7 (2022): 50-55.



| e-ISSN: 2319-8753, p-ISSN: 2347-6710| www.ijirset.com | Impact Factor: 8.118|

||Volume 11, Issue 11, November 2022||

| DOI:10.15680/IJIRSET.2022.1111071|

- 41. Tojiboeva, Shohista Komiljonovna, Alibek Kodiralievich Abdullaev, and Nargiza Roxatalievna Abdullaeva. "GENDER ANALYSIS OF ZOONYMS IN ENGLISH AND UZBEK." *Scientific Bulletin of Namangan State University* 2.10 (2020): 301-305.
- 42. Akbarova, Munira. "FOLKLORE IN PRIMARY EDUCATION-THE LINGUISTIC FEATURES OF TEACHING PROVERBS." Фундаментальные и прикладные научные исследования: актуальные вопросы, достижения и инновации. 2021.
- 43. Adibakhan, Torakhojaeva. "LEARNING SOCIO-POLITICAL TERMS ON THE BASIS OF THEIR FIELDS OF MEANINGS." *Spectrum Journal of Innovation, Reforms and Development* 5 (2022): 13-15.
- 44. Khalilullaevna, Adiba Turahojaeva, and Abdusattorova Farangiz. "Semantic Changes in Information Communication Terms." *Indonesian Journal of Public Policy Review* 18 (2022).
- 45. Adiba, Turakhojayeva, and Farangiz Abdusattorova. "In providing spelling knowledge to students using the case study method." *ASIAN JOURNAL OF MULTIDIMENSIONAL RESEARCH* 10.5 (2021): 192-196.
- 46. Khalilullaevna, Adiba Turahojaeva, and Abdusattorova Farangiz. "Semantic Changes in Information Communication Terms." *Indonesian Journal of Public Policy Review* 18 (2022).
- 47. Турахужаева, А. Х., О. С. Усмонова, and З. С. Абдурахмонова. "THE PROBLEM OF SOCIAL-POLITICAL LEXIS IN LINGUISTICS." Учёный XXI века 4-1 (17) (2016): 64-66.
- 48. Турахужаева, А. Х., О. С. Усмонова, and З. С. Абдурахмонова. "ПРОБЛЕМА ОБЩЕСТВЕННО-ПОЛИТИЧЕСКОЙ ЛЕКСИКИ В ЯЗЫКОЗНАНИИ." *Ученый XXI века* (2016): 65.
- 49. Islomov, B. I., and G. B. Umarova. "Three-dimensional Problems for a Parabolic-Hyperbolic Equation with Two Planes of Change of Type." *Lobachevskii Journal of Mathematics* 41.9 (2020): 1811-1822.
- 50. Islomov, Bozor Islomovich, and Guzalkhon Botirzhonovna Umarova. "On a boundary value problem for a mixed equation with three planes of type change in an infinite prismatic domain." *Vestnik KRAUNC. Fiziko-Matematicheskie Nauki* 34.1 (2021): 19-28.
- 51. Dilafruz, Mahmudova. "BOUNDARY ISSUE IN THE TERMINO SYSTEM." Gospodarka i Innowacje. (2022): 159-161.
- 52. Boshmanova, D. M. "Grammatical views of Nizomiddin Mahmudov." Miasto Przyszłości 23 (2022): 17-21.
- 53. Makhramovna, Boshmanova Dildora. "NIZOMIDDIN MAHMUDOV'S VIEWS ON MODERN LINGUISTICS." *Gospodarka i Innowacje.* 24 (2022): 312-315.
- 54. Ahadovich, Shavkat Hasanov, and Boshmanova Dildora Mahramovna. "Mo Yan-Representative of Hallucinatory Realism." *International Journal on Orange Technologies* 3.3 (2021): 161-171.
- 55. Axmedova, Nilufar. "Theoretical Analysis of Algorithmic Competence as an Object of Pedagogical Analysis." *International Journal on Orange Technologies* 4.1 (2010): 65-68.
- 56. Mamasidiqovna, Axmedova Nilufar, and Abdullayeva Marifat. "Features of non-algorithmic methods in the teaching of elementary mathematics and their role in solving problems." (2021).
- 57. Nizamova, Shahnoza Ubaydullaevna. "Genderological characteristics of Uzbek nicknames." *ACADEMICIA: An International Multidisciplinary Research Journal* 11.4 (2021): 734-737.
- 58. Мансуров, М., Хуснида Мелиева, and Дилшод Султанов. "Приёмы и виды контроля знаний учащихся по математике." *Молодой ученый* 3-1 (2016): 12-14.
- 59. Исмаилова, Дилбар Анваровна, Хуснида Хафизалиевна Мелиева, and Файзулло Баратов. "Развитие творческих способностей учащихся на уроках математики с применением информационных технологий." Инновационная экономика: перспективы развития и совершенствования 2 (7) (2015): 121-123.
- 60. Устаджалилова, Хуршида Алиевна, and Хуснида Мелиева. "Развитие творческих способностей учащихся на уроках математики с применением информационных технологий." *Теория и практика современных гуманитарных и естественных наук*. 2015.
- 61. Shoqosim oʻgʻli, Abdurahmonov Umidjon, Meliyeva Xusnida Xafizaliyevna, and Gʻofurov Toʻlqinjon. "MODERN DIDACTIC MEANS OF TEACHING MATHEMATICS IN SECONDARY SCHOOLS AND PROBLEM EDUCATIONAL TECHNOLOGY." *Galaxy International Interdisciplinary Research Journal* 10.4 (2022): 460-467.
- 62. Абдурахманов, Умиджон, Ормоной Тошматова, and Хуснида Мелиева. "Umumta'lim maktablarida matematika fanini o 'qitishning zamonaviy didaktik vositalari va muammoli ta'lim texnologiyasi." *Общество и инновации* 3.3/S (2022): 231-238.
- 63. Мелиева, Хуснида Хафизалиевна. "Игра «найти задуманное число»." INTERNATIONAL JOURNAL OF DISCOURSE ON INNOVATION, INTEGRATION AND EDUCATION 2.2 (2021): 94-96.
- 64. Shoqosim oʻgʻli, Abdurahmonov Umidjon, Meliyeva Xusnida Xafizaliyevna, and Gʻofurov Toʻlqinjon. "MODERN DIDACTIC MEANS OF TEACHING MATHEMATICS IN SECONDARY SCHOOLS AND



| e-ISSN: 2319-8753, p-ISSN: 2347-6710| www.ijirset.com | Impact Factor: 8.118|

||Volume 11, Issue 11, November 2022||

| DOI:10.15680/IJIRSET.2022.1111071|

- PROBLEM EDUCATIONAL TECHNOLOGY." Galaxy International Interdisciplinary Research Journal 10.4 (2022): 460-467.
- 65. Мелиева, Хуснида Хафизалиевна. "Таълим жараёнини самарали ташкил этишда ўкувчиларда онгли интизомлиликни шакллантиришнинг ўзига хос жихати." Современное образование (Узбекистан) 5 (2018): 17-23.
- 66. Salimovna, Valieva Muhayo, and Khamzaeva Gulbakhor Nabievna. "FOLK PROVERBS AND THEIR FEATURES." Web of Scientist: International Scientific Research Journal 3.4 (2022): 1129-1131.
- 67. Валиева, Мухайё Салимовна. "ИСПОЛЬЗОВАНИЕ ИННОВАЦИОННЫХ ОБРАЗОВАТЕЛЬНЫХ ТЕХНОЛОГИЙ НА УРОКАХ." *Academic research in educational sciences* 2.12 (2021): 289-292.
- 68. Soliyevich, Isakov Zakirjon, and Olimova Dilshodaxonbaxtiyorjon Qizi. "Working on the Etymology of Words in Access to Scientific and Popular Texts." *CENTRAL ASIAN JOURNAL OF LITERATURE*, *PHILOSOPHY AND CULTURE* 2.9 (2021): 43-45.
- 69. Валиева, Мухайё Салимовна. "ИСПОЛЬЗОВАНИЕ ИННОВАЦИОННЫХ ОБРАЗОВАТЕЛЬНЫХ ТЕХНОЛОГИЙ НА УРОКАХ." *Academic research in educational sciences* 2.12 (2021): 289-292.
- 70. Nizamova, Shahnoza Ubaydullaevna. "Genderological characteristics of Uzbek nicknames." ACADEMICIA: An International Multidisciplinary Research Journal 11.4 (2021): 734-737.
- 71. Nizomova, Shahnoza. "LINGUISTIC ANALYSIS OF PSEUDONYMS OF UZBEK WOMEN IN THE FIELD OF CREATIVTY AND ART." Scientific Bulletin of Namangan State University 2.3 (2020): 393-398.
- 72. Rakhimovna, Toshmatova Ormonoy. "The Method of Working on Two-Question Problems." INTERNATIONAL JOURNAL OF INCLUSIVE AND SUSTAINABLE EDUCATION 1.5 (2022): 90-93.













INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN SCIENCE | ENGINEERING | TECHNOLOGY







📵 9940 572 462 🔯 6381 907 438 🔀 ijirset@gmail.com

