

MATEMATIKA O'QITISH METODIKASINING METODOLOGIK ASOSI

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Annotatsiya. Mazkur maqolada matematika o'qitish metodikasining metodologik asosi va matematik ta'limning maqsadi, mazmuni, formasi, uslubi va uning vositalari haqida so'z boradi. Maqola davomida asoli fikr va mulohazalardan foydalanilgan.

Kalit so'zlar: matematika o'qitish metodikasi, metodika, matematika tizimining butunligi.

METHODOLOGICAL BASIS OF MATHEMATICS TEACHING METHODOLOGY

Abstract. This article talks about the methodological basis of mathematics teaching methodology and the purpose, content, form, style and means of mathematics education. Reasonable opinions and comments are used throughout the article.

Key words: mathematics teaching methodology, methodology, integrity of the mathematics system.

МЕТОДОЛОГИЧЕСКИЕ ОСНОВЫ МЕТОДИКИ ПРЕПОДАВАНИЯ МАТЕМАТИКИ

Аннотация. В данной статье говорится о методических основах методики преподавания математики, а также о цели, содержании, форме, стиле и средствах математического образования. На протяжении всей статьи используются обоснованные мнения и комментарии.

Ключевые слова: методика преподавания математики, методика, целостность математической системы.

Matematika o'qitish metodikasining metodologik asosi bilish nazariyasiga asoslangandir. Matematika metodikasi fani matematik ta'limning maqsadi, mazmuni, formasi, uslubi va uning vositalarini dars jarayoniga tatbiqiy qonuniyatlarini o'rganib keladi. Matematika fani fizika, chizmachilik, kimyo va astronomiya fanlari bilan ham uzviy aloqada bo'ladi.

Matematika fanining boshqa fanlar bilan uzviy aloqasi quyidagi ikki yo'l bilan amalga oshiriladi:

1) matematika tizimining butunligini buzmagani holda qo'shni fanlarning dasturlarini moslashtirish;

2) boshqa fanlarda matematika qonunlarini, formulalarini teoremlarni o'rganish bilan bog'liq bo'lgan materiallardan matematika kursida foydalanish. Hozirgi vaqtda matematika dasturini boshqa fanlar bilan moslashtirish masalasi ancha muvaffaqiyatli hal qilingan.

Masalan, funksiyalar va ularni grafik tasvirlash haqida fizikada foydalaniladigan ba'zi ma'lumotlarni o'quvchilar VII sinfdan boshlab o'rgana boshlaydilar. VIII sinfdan beriladigan geometrik yasashlarga doir ko'p bilimlar chizmachilik fani uchun boy material bo'ladi, chizmachilikning vazifasi bu bilimlarni turli chizmachilik ishlarini bajaritish yo'li bilan puxtalashdan iboratdir. Matematika metodikasi fani matematik ta'limning maqsadi, mazmuni, formasi, uslubi va uning vositalarini dars jarayoniga tatbiqiy qonuniyatlarini o'rganib keladi.

Matematika fani fizika, chizmachilik, kimyo va astronomiya fanlari bilan ham uzviy aloqada bo'ladi.

Matematika so'zi qadimgi grekcha — *mathema* so'zidan olingan bo'lib, uning ma'nosi «fanlarni bilish» demakdir. Matematika fanining o'rganadigan narsasi (obyekti) materiyadagi mavjud narsalarning fazoviy formalari va ular orasidagi miqdoriy munosabatlardan iborat. Hozirgi davrda matematika fani shartli ravishda ikkiga ajraladi: 1) elementar matematika, 2) oliy matematika. Elementar matematika ham mustaqil mazmunga ega bo'lgan fan bo'lib, u oliy matematikaning turli tarmoqlaridan, ya'ni nazariy arifmetikadan, sonlar nazariyasidan, oliy algebradan, matematik analizdan va geometriyaning mantiqiy kursidan olingan elementar ma'lumotlar asosiga qurilgandir. Oliy matematika fani esa real olamning fazoviy formalari va ular orasidagi miqdoriy munosabatlarni to'la hamda chuqur aks ettiruvchi matematik qonuniyatlarini topish bilan shug'ullanadi. Elementar matematika fani maktab matematika kursining asosini tashkil qiladi. Maktab matematika kursining maqsadi o'quvchilarga ularning psixologik xususiyatlarini hisobga olgan holda matematik bilimlar sistemasini ma'lum usul (metodika) orqali o'quvchilarga yetkaziladi. (Metodika so'zi grekcha so'z bo'lib, «yo'l» degan ma'noni anglatadi.) Matematika metodikasi pedagogika va didaktika fanining asosiy bo'limlaridan biri bo'lib, jamiyatimiz taraqqiyoti darajasida ta'lim maqsadlariga mos keluvchi matematikani o'qitish, o'rganish qonuniyatlarini o'rganadigan mustaqil fandır.

Matematika o'qitishning umumta'limiy maqsadi o'z oldiga quyidagi vazifalarni qo'yadi:

a) o'quvchilarga ma'lum bir dastur asosida matematik bilimlar tizimini berish. Bu bilimlar tizimi matematika fani to'g'risida o'quvchilarga yetarli darajada ma'lumot berishi, ularni matematika fanining yuqori bo'limlarini o'rganishga tayyorlashi kerak. Bundan tashqari, dastur asosida o'quvchilar o'qish jarayonida olgan bilimlarining ishonchli ekanligini tekshira bilishga o'rganishlari, ya'ni isbotlash va nazorat qilishning asosiy metodlarini egallashlari kerak;

b) o'quvchilarning og'zaki va yozma matematik bilimlarini tarkib toptirish. Matematikani o'rganish o'quvchilarning o'z ona tillarida xatosiz so'zlash, o'z fikrini aniq, ravshan va lo'nda qilib bayon eta bilish malakalarini o'zlashtirishlariga yordam berishi kerak. Bu degan so'z o'quvchilarning har bir matematik qoidani o'z ona tillarida to'g'ri gapira olishlariga erishish hamda ularni ana shu qoidaning matematik ifodasini formulalar yordamida to'g'ri yoza olish qobiliyatlarini atroflicha shakllantirish demakdir;

d) o'quvchilarni matematik qonuniyatlarni asosida real haqiqatlarni bilishga o'rgatish. Bu yerda o'quvchilarga real olamda yuz beradigan eng sodda hodisalardan tortib to murakkab hodisalargacha hammasini fazoviy formalari va ular orasidagi miqdoriy munosabatlarni tushunishga imkon beradigan hajmda bilimlar berish ko'zda tutiladi. Bunday bilimlar berish orqali esa o'quvchilarning fazoviy tasavur qilishlari shakllanadi hamda mantiqiy tafakkur qilishlari yanada rivojlanadi.

2. Matematika o'qitishning tarbiyaviy maqsadi o'z oldiga quyidagilarni qo'yadi:

a) o'quvchilarda ilmiy dunyoqarashni shakllantirish. Bu g'oya bilish nazariyasi asosida amalga oshiriladi;

b) o'quvchilarda matematikani o'rganishga bo'lgan qiziqishlarni tarbiyalash.

Ma'lumki, matematika darslarida o'quvchilarni o'qitishning dastlabki kunlaridanoq mustaqil ravishda xulosa chiqarishga o'rganadilar. Ular avvalo kuzatishlar natijasida, so'ngra esa mantiqiy

tafakkur qilish natijasida xulosa chiqaradilar. Ana shu chiqarilgan xulosalar matematik qonuniyatlar bilan tasdiqlanadi.

REFERENCES

1. Oljayevna, O., & Shavkatovna, S. (2020). The Development of Logical Thinking of Primary School Students in Mathematics. *European Journal of Research and Reflection in Educational Sciences*, 8(2), 235-239.
2. Uljaevna, U. F., & Shavkatovna, S. R. (2021). Development and education of preschool children. *Academicia: an international multidisciplinary research journal*, 11(2), 326-329.
3. Shavkatovna, S. R. (2021). Developing Critical Thinking In Primary School Students. *Conferencea*, 97-102.
4. Ra'noxon, S. (2022). BOSHLANG'ICH MAKTAB O'QUVCHILARIDA MATEMATIKAGA MUNOSABAT. *IJTIMOY FANLARDA INNOVASIYA ONLAYN ILMIY JURNALI*, 2(11), 203-207.
5. Shavkatovna, S. R. N. (2021). Methodical Support Of Development Of Creative Activity Of Primary School Students. *Conferencea*, 74-76.
6. Shavkatovna, S. R. (2021). Methodological Support for The Development of Primary School Students' Creative Activities. *Texas Journal of Multidisciplinary Studies*, 2, 121-123.
7. Shavkatovna, S. R. (2021). Improvement of methodological pedagogical skills of developing creative activity of primary school students. *ACADEMICIA: An International Multidisciplinary Research Journal*, 11(10), 289-292.
8. Шарофутдинова, Р., & Абдуллаева, С. (2022). Фикрлаш қобилиятини ривожлантиришда ментал арифметика. *Ijtimoiy fanlarda innovasiya onlayn ilmiy jurnali*, 2(11), 235-239.
9. Maxamadaliyevna, Y. D., Oljayevna, O. F., Qizi, T. D. T., Shavkatovna, S. R. N., & Anvarovna, A. O. (2020). Pedagogical Features Of Mental Development Of Preschool Children. *Solid State Technology*, 63(6), 14221-14225.
10. Sharofutdinova, R. I., Asadullaev, A. N., & Tolibova, Z. X. (2021). The Factors and Basic Concepts Determining Community Health. *Central Asian Journal of Medical and Natural Science*, 2(5), 376-379.
11. Gafurova, M. A. (2022). Improving Mental Skills Of Students By Analyzing And Solving Problems. *Current Research Journal Of Pedagogics*, 3(01), 40-44.
12. Marchis, I. (2011). Factors that influence secondary school students' attitude to mathematics. *Procedia-Social and Behavioral Sciences*, 29, 786-793.
13. Шарофутдинова, Р. Ш. (2022). БОШЛАНГИЧ СИНФ ЎҚУВЧИЛАРИДА ИЖОДИЙ ФАОЛИЯТНИ РИВОЖЛАНТИРИШ МОДЕЛИ. *Central Asian Academic Journal of Scientific Research*, 2(3), 149-158.
14. Maxamadaliyevna, Y. D., & O'ljayevna, O. R. F. (2020). Tursunova Dilnavoz To 'Iqin qizi, Sharofutdinova Ra'noxon Shavkatovna, Ashurova Oygul Anvarovna. Pedagogical features of mental development of preschool children. *Solid State Technology*, 63(6).

15. Maxamadaliyevna, Y. D. O „Ijayevna, ORF (2020). Tursunova Dilnavoz To „Iqin qizi, Sharofutdinova Ra“ noxon Shavkatovna, Ashurova Oygul Anvarovna. Pedagogical features of mental development of preschool children. *Solid State Technology*, 63(6).
16. Ergashovna, S. G., & Baxodirovna, S. N. (2019). Modern teaching technologies in teaching mathematics in elementary grades. *European Journal of Research and Reflection in Educational Sciences*, 7.
17. Shavkatovna, S. R. N. (2022). THE ROLE OF FOREIGN EXPERIENCES IN THE DEVELOPMENT OF CREATIVE ACTIVITY IN PRIMARY SCHOOL STUDENTS. *American Journal of Interdisciplinary Research and Development*, 10, 128-133.
18. Shavkatovna, S. R. (2023). DEVELOPMENT OF CREATIVE ACTIVITY OF ELEMENTARY SCHOOL STUDENTS AS A SOCIO-PEDAGOGICAL NECESSITY. *Open Access Repository*, 4(03), 51-59.
19. Aminova, F., Ahlimirzayev, A., & Sharofiddinova, R. (2023). USING THE PRINCIPLE OF INTERDISCIPLINARY RELATIONSHIP IN STUDYING DIFFERENTIAL EQUATIONS IN SPECIALIZED SCHOOLS AND ACADEMIC LYCEUMS.
20. Lebedev, S. A. (2015). Axiomatic and genetic-construction methods of theoretical cognition: comparative analysis. *European Journal of Philosophical Research*, (2), 72-82.
21. Shavkatovna, S. R., & Gulbahor, R. (2021). THE IMPORTANCE OF MENTAL ARITHMETIC IN MENTAL DEVELOPMENT IN CHILDREN. *Conferencea*, 68-70.
22. Shavkatovna, S. R. N., & Sohixaxon, S. (2023). MAXSUS TA'LIMNING RIVOJLANISH BOSQICHLARI. *O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI*, 2(19), 830-836.
23. Шарофутдинова, Р., & Абдужабборов, А. (2023). ТЕХНОЛОГИК ТАЪЛИМНИНГ ИЖОДИЙ ЙЎНАЛТИРИЛГАНЛИГИДА ҲАМКОРЛИК КЛАСТЕРИ. *O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI*, 2(19), 848-853.
24. Шарофутдинова, Р., & Абдукодилов, Б. (2023). ТЕХНОЛОГИК ТАЪЛИМ ЖАРАЁНИДА ЎҚУВЧИЛАРИНИНГ ИЖОДИЙ ФАОЛИЯТИНИ РИВОЖЛАНТИРИШ ОМИЛЛАРИ ВА ТАМОЙИЛЛАРИ. *O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI*, 2(19), 862-868.
25. Шарофутдинова, Р. (2023). БОШЛАНҒИЧ СИНФ ЎҚУВЧИЛАРИНИНГ ИЖОДИЙ ФАОЛИЯТИНИ РИВОЖЛАНТИРИШ-ИЖТИМОЙ ПЕДАГОГИК ЗАРУРАТ СИФАТИДА. *O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI*, 2(19), 842-847.
26. Шарофутдинова, Р. (2023). ИЖОД ТУШУНЧАСИ ФАОЛИЯТНИ РИВОЖЛАНТИРИШ МЕХАНИЗМИ. *O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI*, 2(19), 854-861.
27. Sharafutdinova, R., & Abdujabborov, A. (2023). EDUCATIONAL TECHNOLOGIES AIMED AT THE DEVELOPMENT OF CREATIVE ACTIVITY IN PRIMARY SCHOOL STUDENTS. *Modern Science and Research*, 2(5), 890-896.

28. Sharofutdinova, R., & Abduqodirov, B. (2023). DEVELOPMENT OF CREATIVE ACTIVITY OF ELEMENTARY SCHOOL STUDENTS IN THE EDUCATIONAL PROCESS. *Modern Science and Research*, 2(5), 904-910.
29. Абдужабборов, А., & Шарофутдинова, Р. (2023). БОШЛАНҒИЧ СИНФ ЎҚУВЧИЛАРИДА ИЖОДИЙ ФАОЛИЯТНИ РИВОЖЛАНТИРИШГА ҚАРАТИЛГАН ТАЪЛИМ ТЕХНОЛОГИЯЛАРИ.
30. SHarofutdinova, R. S. (2023). BOSHLANICH SINFI O'QUVCHILARINI IJODIY FAOLIYATGA YO'NALTIRIB O'QITISHDA HAMKORLIK. *O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI*, 2(20), 69-76.
31. Shavkatovna, S. R. N., & Shoyunus o'g'li, M. J. (2023). MENTAL ARIFMETIKADA ABAKUS ETIMOLOGIYASI. *O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI*, 2(20), 61-68.
32. Karabayeva, X. (2023). THE IMPORTANCE OF MENTAL ARITHMETIC IN MENTAL DEVELOPMENT IN CHILDREN. *Modern Science and Research*, 2(6), 640-651.
33. Sharofutdinova, R., & Mamayusupov, J. (2023). DEVELOPMENT AND EDUCATION OF PRESCHOOL CHILDREN. *Modern Science and Research*, 2(6), 606-616.
34. Sharofutdinova, R. (2023). IMPROVEMENT OF METHODOLOGICAL PEDAGOGICAL SKILLS OF DEVELOPING CREATIVE ACTIVITY OF PRIMARY SCHOOL STUDENTS. *Modern Science and Research*, 2(6), 617-627.
35. Раънохон Шавкатовна Шарофутдинова (2022). БОШЛАНҒИЧ СИНФ ЎҚУВЧИЛАРИДА ИЖОДИЙ ФАОЛИЯТНИ РИВОЖЛАНТИРИШ МОДЕЛИ. *Central Asian Academic Journal of Scientific Research*, 2 (3), 149-158
36. Iqboljon, S. (2022). Boshlang'ich Sinf O'quv Jarayonida Axborot Texnologiyalaridan Foydalanish. *Ijodkor O'qituvchi*, 2(20), 137-140.
37. Sharofutdinov, I. (2023). THE ACTUAL STATUS OF THE METHODOLOGY OF DEVELOPING ACMEOLOGICAL COMPETENCE OF FUTURE EDUCATORS IN THE CONDITIONS OF INFORMING EDUCATION. *Академические исследования в современной науке*, 2(12), 206-213.
38. Sharofutdinov, I. (2023). DEVELOPMENT OF ACMEOLOGICAL COMPETENCE OF FUTURE EDUCATORS IN THE CONDITIONS OF INFORMING EDUCATION. *International Bulletin of Applied Science and Technology*, 3(5), 424-429.
39. Sharofutdinov, I. (2023). DEVELOPMENT OF ACMEOLOGICAL COMPETENCE OF FUTURE EDUCATORS IN THE CONDITIONS OF INFORMING EDUCATION. *International Bulletin of Applied Science and Technology*, 3(5), 424-429.
40. Sharofutdinov, I. (2023). BO 'LAJAK PEDAGOGIYALARNING AKMEOLOGIK KOMPETENTLIGINI RIVOJLANTIRISH METODIKASINING AMALIYOTDA QOLLASH. *Педагогика и психология в современном мире: теоретические и практические исследования*, 2(7), 54-58.
41. Iqboljon, S. (2022). KOMPYUTER YORDAMIDA DARSLARNI TASHKIL ETISH. *O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI*, 1(9), 246-249.

42. Sharofutdinov, I. (2023). PEDAGOGIK-PSIXOLOGIK FANLARNING BO 'LAJAK PEDAGOGLARNING AKMEOLOGIK KOMPETENTLIGINI RIVOJLANTIRISHDAGI O 'RNI. *Общественные науки в современном мире: теоретические и практические исследования*, 2(6), 17-24.
43. Sharofutdinov, I. (2023). TA'LIMNI AXBOROTLASHTIRISH SHAROITIDA BO 'LAJAK PEDAGOGLARNING AKMEOLOGIK KOMPETENTLIGINI RIVOJLANTIRISH MEXANIZMLARINI TAKOMILLASHTIRISHNING PEDAGOGIK TIZIMI. *Инновационные исследования в современном мире: теория и практика*, 2(14), 13-19.
44. Sharofutdinov, I. (2023). STRUCTURE AND COMPONENTS OF THE DEVELOPMENT OF ACMEOLOGICAL COMPETENCE OF FUTURE EDUCATORS IN THE CONDITIONS OF EDUCATION INFORMATION. *International Bulletin of Applied Science and Technology*, 3(4), 574-580.
45. Sharofutdinov, I. (2023). TA'LIMNI AXBOROTLASHTIRISH SHAROITIDA BO 'LAJAK PEDAGOGLARNING AKMEOLOGIK KOMPETENTLIGINI RIVOJLANTIRISH IJTIMOIIY ZARURAT SIFATIDA. *Scientific journal of the Fergana State University*, (1), 535-540.
46. Sharofutdinov, I. (2023). FORMS OF SELF-DEVELOPMENT IN FUTURE PEDAGOGUES BASED ON THE ACMEOLOGICAL APPROACH IN THE PROCESS OF INFORMATIZATION OF EDUCATION. *Science and innovation*, 2(B3), 5-8.
47. Usmonjon o'g'li, S. I. (2022). TA'LIM TIZIMIDA RAQAMLI TEXNALOGIYA. *INNOVATIVE DEVELOPMENTS AND RESEARCH IN EDUCATION*, 1(12), 120-128.
48. Shavkatovna, S. R. N., & Sohixaxon, S. (2023). MAXSUS TA'LIMNING RIVOJLANISH BOSQICHLARI. *O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI*, 2(19), 830-836.
49. Mirzaxolmatovna, X. Z., Nematovna, R. S., & Shavkatovna, S. R. (2022). FORMS OF THINKING IN THE PROCESS OF STUDYING MATHEMATICS. *European International Journal of Multidisciplinary Research and Management Studies*, 2(12), 259-263.
50. Shavkatovna, S. R. N. (2022). THE ROLE OF FOREIGN EXPERIENCES IN THE DEVELOPMENT OF CREATIVE ACTIVITY IN PRIMARY SCHOOL STUDENTS. *American Journal of Interdisciplinary Research and Development*, 10, 128-133.
51. Ruzmatovich, U. S. (2022). PROCESSES OF ORGANIZATION OF TECHNICAL, TACTICAL AND PHYSICAL PREPARATION IN NATIONAL WRESTLING TRAINING. *INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT, ENGINEERING AND SOCIAL SCIENCES ISSN: 2349-7793 Impact Factor: 6.876*, 16(3), 65-68.
52. Ruzmatovich, U. S. (2022). CHANGES EXPECTED TO COME IN OUR LIFE MOVEMENTS. *Web of Scientist: International Scientific Research Journal*, 3(3), 485-489.

53. Shohbozjon, K., & Azizjon, M. (2022). PREPARING SCHOOL STUDENTS IN THE FIELD OF PHYSICAL CULTURE AND SPORTS BEFORE ENTRY TO HIGHER EDUCATION. *INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT, ENGINEERING AND SOCIAL SCIENCES* ISSN: 2349-7793 Impact Factor: 6.876, 16(10), 100-108.
54. Ruzmatovich, U. S., & Shohbozjon G'ayratjon o'g, Q. (2023). Uzbekistan's General Education School Physical Education Programme: A Curriculum Analysis. *Best Journal of Innovation in Science, Research and Development*, 2(5), 184-193.
55. Qodirov, S. (2023). CONTENT OF PHYSICAL FITNESS OF STUDENTS OF THE GENERAL SECONDARY SCHOOL OF EDUCATION. *Modern Science and Research*, 2(6), 368-381.
56. Qodirov, S. (2023). CONTENT OF PHYSICAL FITNESS OF STUDENTS OF THE GENERAL SECONDARY SCHOOL OF EDUCATION. *Modern Science and Research*, 2(6), 368-381.
57. Qodirov, S. (2023). ANALYSIS OF INDICATORS OF THE PHYSICAL DEVELOPMENT OF UNIVERSITY STUDENTS. *Modern Science and Research*, 2(6), 406-418.
58. Qodirov, S. (2023). URGENT PROBLEMS OF TRAINING FOR ADMISSION TO A HIGHER EDUCATIONAL INSTITUTION IN THE FIELD OF PHYSICAL CULTURE AND SPORTS. *Modern Science and Research*, 2(6), 395-405.
59. Мўйдинов, А. (2021). ЁШЛАРНИ ТУРЛИ ТАХДИДЛАРДАН ҲИМОЯ ҚИЛИШДА АЖДОДЛАР МЕРОСИДАН ФОЙДАЛАНИШНИНГ АҲАМИЯТИ. *Academic research in educational sciences*, 2(2), 132-137.
60. Asilbek, M. (2022). Socio-philosophical aspects of education of an enlightened person in the development of society. *Conferencea*, 183-186.
61. Muydinov, A. (2022). ENLIGHTENMENT IN TURKESTAN IN THE SECOND HALF OF THE XIX-EARLY XX CENTURIES. ENLIGHTENMENT BY JADID SCHOOL. *ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW* ISSN: 2319-2836 Impact Factor: 7.603, 11(10), 14-20.
62. Mo'ydinov, A. (2023). THE EFFECTIVENESS OF IMPROVING IDEOLOGICAL PREVENTION AGAINST THREATS ON THE GLOBAL INTERNET IN EDUCATIONAL INSTITUTIONS. *Modern Science and Research*, 2(6), 897-909.
63. Mo'ydinov, A. (2023). THE MEANING AND ESSENCE OF THREATS IN THE GLOBAL INTERNET NETWORK. *Modern Science and Research*, 2(6), 886-896.
64. Mo'ydinov, A. (2023). REGARDING THE REGULATION OF THREATS ON THE INTERNET NETWORK INTERNATIONAL EXPERIENCE. *Modern Science and Research*, 2(6), 419-434.
65. Mo'ydinov, A. (2023). ANALYSIS OF THE ISSUE OF COMBATING VARIOUS THREATS IN HISTORICAL-THEORETICAL SOURCES AND THE PECULIARITIES OF GLOBAL INTERNET THREATS IN THE CURRENT PERIOD AND THE NEED TO COMBAT THEM. *Modern Science and Research*, 2(6), 382-394.

66. Mo'yidinov, A. (2023). ISSUES OF PROTECTING YOUTH FROM SPIRITUAL AND IDEOLOGICAL THREATS IN THE NATIONAL LEGISLATIVE SYSTEM OF THE REPUBLIC OF UZBEKISTAN. *Modern Science and Research*, 2(6), 435-447.
67. G'aniyev, A., & Muydinov, A. (2023). YUNUS EMRO SHE'RLARIDA TASAVVUF ILMI DURDONALARI. *Центральноазиатский журнал образования и инноваций*, 2(5 Part 3), 287-289.
68. Asilbek, M. (2022). Socio-philosophical aspects of education of an enlightened person in the development of society. *Conferencea*, 183-186.
69. Adham o'g'li, M. A. (2022). THE ROLE OF NATIONAL WITCHCRAFT HERITAGE IN THE SPIRITUAL RISE OF SOCIETY (SOCIO-PHILOSOPHICAL ANALYSIS). *American Journal of Interdisciplinary Research and Development*, 10, 122-127.
70. Mirzaboyev, Y. (2023). FEATURES OF A COMPETENCY APPROACH TO THE IMPLEMENTATION OF THE NATIONAL CURRICULUM IN PRACTICE. *Science and innovation*, 2(B4), 63-67.
71. Irgashevich, D. M., & Azadovna, S. G. (2022). FORMATION OF A GENERAL APPROACH TO SOLVING PROBLEMS FOR PRIMARY EDUCATION ACCORDING TO THE REQUIREMENTS IN THE NATIONAL CURRICULUM OF UZBEKISTAN. *Galaxy International Interdisciplinary Research Journal*, 10(6), 771-781.
72. MIRZABOYEV, Y. BOSHLANG'ICH SINF O'QITUVCHILARINING MATEMATIKA O 'QITISH METODIKASI. O 'RTA UMUMTA'LIM MAKTABLARIDA MATEMATIKA O 'QITISHNING MAQSADI. *ЭКОНОМИКА*, 169-172.
73. Мирзабоев, Й. А. (2022). Тур Ўзгариш Чизиқлари Учта Бўлган, Гиперболик Қисмларининг Ҳаммаси Характеристик Учбурчаклардан Иборат Бўлган Бешбурчакли Соҳада Учинчи Тартибли Кўринишдаги Параболик-Гиперболик Тенглама Учун Битта Чегаравий Масала Ҳақида. *Theory And Analytical Aspects Of Recent Research*, 1(5), 363-366.
74. Ra'noxon, S. (2022). BOSHLANG'ICH MAKTAB O'QUVCHILARIDA MATEMATIKAGA MUNOSABAT. *IJTIMOIIY FANLARDA INNOVASIYA ONLAYN ILMIY JURNALI*, 2(11), 203-207.
75. Ahrorjon, R. (2021). Initial Pedagogical Processes in The Direction of Primary Education Students to The Profession. *Texas Journal of Multidisciplinary Studies*, 2, 85-87.
76. Rahmatjonzoda, A. (2023). TA'LIM JARAYONIDA IBRATLI HIKOYALARNING O 'RNI. *Инновационные исследования в современном мире: теория и практика*, 2(17), 190-191.
77. Sobirjonovich, S. I. (2022). EASTERN THINKERS'VIEWS ON EVERYWHERE EDUCATION OF CHILDREN. *BARQARORLIK VA YETAKCHI TADQIQOTLAR ONLAYN ILMIY JURNALI*, 309-314.
78. Sobirjonovich, S. I. (2022). EASTERN THINKERS'VIEWS ON EVERYWHERE EDUCATION OF CHILDREN. *BARQARORLIK VA YETAKCHI TADQIQOTLAR ONLAYN ILMIY JURNALI*, 309-314.

79. Abdurakhmonov, A. A. (2020). THE ROLE OF SELF-GOVERNING BODIES OF CITIZENS IN THE DEVELOPMENT OF CIVIL SOCIETY IN UZBEKISTAN. In *МИРОВАЯ НАУКА 2020. ПРОБЛЕМЫ И ПЕРСПЕКТИВЫ* (pp. 6-8).
80. Abduraxmonov, A., & Kadirov, S. (2022). DEMOGRAFIK JARAYONLARNING IQTISODIY-IJTIMOYIY SOHALARNI RIVOJLANISHI BILAN BOG 'LIQLIGI VA DASTLABKI XUSUSIY MULK MASALALARI. IJTIMOYIY FANLARDA INNOVASIYA ONLAYN ILMIY JURNALI, 2(11), 222-229.
81. Abduraxmonov, A. (2023). THE ISSUES OF STUDYING AND PRESERVING THE ARCHAEOLOGICAL MONUMENTS OF THE KUSHAN PERIOD IN THE OLD TERMIZ. *Евразийский журнал академических исследований*, 3(3 Part 3), 38-42.
82. Abduraxmonov, A. (2022). REACTIVE POWER. REACTIVE POWER COMPENSATION. *Development of pedagogical technologies in modern sciences*, 1(4), 64-67.
83. Abdurahmonov, A. (2022). IBTIDOYIY AHOLI VA UNING DEMOGRAFIK HOLATI HAQIDA AYRIM MULOHAZALAR. *Uzbek Scholar Journal*, 4, 124-126.
84. Abdurahmonov, A. (2022). PALEODEMOGRAFIYA VA U HAQIDA AYRIM MULOHAZALAR. *Uzbek Scholar Journal*, 4, 113-117.
85. Abduraxmonov, A. (2022). PALEODEMOGRAFIYA VA UNING HISOBLASH USULLARI. *Central Asian Research Journal for Interdisciplinary Studies (CARJIS)*, 2(5), 686-690.
86. Sobirjonovich, S. I. (2022). EASTERN THINKERS'VIEWS ON EVERYWHERE EDUCATION OF CHILDREN. *BARQARORLIK VA YETAKCHI TADQIQOTLAR ONLAYN ILMIY JURNALI*, 309-314.
87. Sobirjonovich, S. I. (2022). EASTERN THINKERS'VIEWS ON EVERYWHERE EDUCATION OF CHILDREN. *BARQARORLIK VA YETAKCHI TADQIQOTLAR ONLAYN ILMIY JURNALI*, 309-314.
88. Marchis, I. (2011). Factors that influence secondary school students' attitude to mathematics. *Procedia-Social and Behavioral Sciences*, 29, 786-793.
89. Ergashovna, S. G., & Baxodirovna, S. N. (2019). Modern teaching technologies in teaching mathematics in elementary grades. *European Journal of Research and Reflection in Educational Sciences*, 7.
90. Lebedev, S. A. (2015). Axiomatic and genetic-construction methods of theoretical cognition: comparative analysis. *European Journal of Philosophical Research*, (2), 72-82.
91. Ahrorjon, R. (2021). Initial Pedagogical Processes in The Direction of Primary Education Students to The Profession. *Texas Journal of Multidisciplinary Studies*, 2, 85-87.
92. Rahmatjonzoda, A. (2023). TA'LIM JARAYONIDA IBRATLI HIKOYALARNING O 'RNI. *Инновационные исследования в современном мире: теория и практика*, 2(17), 190-191.
93. Farkhodovich, T. D. kizi, DMS., & kizi, AUY.(2022). Critical Thinking in Assessing Students. *Spanish Journal of Innovation and Integrity*, 6, 267-271.

94. Qizi, D. M. S., & Qizi, R. G. X. (2022). METHODS OF STUDYING ADDITION AND SUBTRACTION OF TWO-DIGIT NUMBERS IN ELEMENTARY SCHOOL. *Gospodarka i Innowacje*, 22, 61-67.
95. Dehqonova, Mahliyo Shuhrat Qizi, & Axmedova, Umida Yodgorjon Qizi (2023). BO'LAJAK BOSHLANG'ICH SINF O'QITUVCHILARINI MATEMATIK SAVODXONLIGINI OSHIRISH JARAYONIDA ULARNING TAFAKKURI, QOBILIYATI VA INTELLEKTUAL RIVOJLANISH.. *Oriental renaissance: Innovative, educational, natural and social sciences*, 3 (4-2), 251-256.
96. Dehqonova, M. S. Q. (2023). BO'LAJAK BOSHLANG'ICH SINF O'QITUVCHILARINI METODIK TAYYORGARLIGINI TAKOMILLASHTIRISH TEXNOLOGIYASINI ISHLAB CHIQUISH VA AMALGA OSHIRISH XUSUSIYATLARI. *Oriental renaissance: Innovative, educational, natural and social sciences*, 3(4-2), 244-250.
97. Dehqonova, Mahliyo Shuhrat Qizi (2023). BO'LAJAK BOSHLANG'ICH SINF O'QITUVCHILARINI MATEMATIK SAVODXONLIGINI OSHIRISH VA MATEMATIKANI UYG'UNLASHTIRISHIDA AN'ANAVIY VA INNOVATSION USULLARDAN FOYDALANISH. *Oriental renaissance: Innovative, educational, natural and social sciences*, 3 (4), 879-886.
98. Urinboyevna, E. Y., & Shahruza, R. (2021). About Gender Equality and the Process of Ensuring It. *International Journal of Innovative Analyzes and Emerging Technology*, 1(7), 54-56.
99. Urinboyevna, E. Y. (2021). Classification of Integrative Education. *International Journal of Culture and Modernity*, 11, 162-164.
100. Urinboyevna, E. Y., & Zarina, M. (2022). Existence of Integration in Secondary Schools. *European Multidisciplinary Journal of Modern Science*, 6, 119-124.
101. Egamberdiyeva, Y. U. (2021). BO 'LAJAK O 'QITUVCHILARINING PSIXOLOGIK PEDAGOGIK BILIMLARINI INTEGRATSIYALASH JARAYONI. In *МОЛОДОЙ ИССЛЕДОВАТЕЛЬ: ВЫЗОВЫ И ПЕРСПЕКТИВЫ* (pp. 351-355).
102. Urinboyevna, E. Y. (2021). Theoretical Bases of Integration of Educational Process. *International Journal of Innovative Analyses and Emerging Technology*, 1(7), 57-61.
103. Urinboyevna, E. Y. (2022). THE IMPORTANCE OF INCREASING THE COOPERATION OF STUDENTS IN THE EDUCATIONAL PROCESS. *PEDAGOGS jurnali*, 21(1), 165-169.
104. G'ulomovna, Y. D. (2023). Factors of Interest in Choosing A Profession of Students of The Graduating Class of General Secondary Education Schools. *Web of Scientists and Scholars: Journal of Multidisciplinary Research*, 1(6), 13-18.
105. Urinboyevna, E. Y. (2023). Preparation of a Future Primary Educational Teacher to Professional Activities. *Web of Synergy: International Interdisciplinary Research Journal*, 2(4), 628-633.
106. Egamberdiyeva, Y. U. (2021). UMUMTALIM MAKTABLARIDA INTEGRATSIYANING MAVJUDLIGI. *Студенческий вестник*, (1-8), 95-97.
107. Urinboyevna, E. Y. (2023). Expanding Students' World View Through Integrated Lessons In Primary Education System. *Web of Teachers: Inderscience Research*, 1(3), 1-4.

108. Rustamova, A. E. (2022, December). THE IMPROVEMENT OF READING SKILLS OF TEENAGERS IN TEACHING FOREIGN LANGUAGES. In *INTERDISCIPLINE INNOVATION AND SCIENTIFIC RESEARCH CONFERENCE* (Vol. 1, No. 4, pp. 64-66).
109. Ergashev, R. N., & Bakhramov, M. M. (2023). TRANSPARENT CONDUCTIVE SN BASED. *Horizon: Journal of Humanity and Artificial Intelligence*, 2(5), 724-727.
110. Otazhonov, S. M., Ergashev, R. N., Botirov, K. A., Qaxxorova, B. A., Xudoynazarova, M. A., Abdukarimova, N. A., ... & Ismoilova, E. M. (2022, December). Influence of thickness and temperature on photoelectric properties of p-CdTe-nCdS and pCdTe-CdSe heterostructures. In *Journal of Physics: Conference Series* (Vol. 2388, No. 1, p. 012001). IOP Publishing.
111. Otajonov, S. M., Ergashev, R. N., Axmedov, T., Usmonov, Y., & Karimov, B. (2022, December). Photoelectric properties of solar cells based on pCdTe-nCdS and pCdTe-nCdSe heterostructures. In *Journal of Physics: Conference Series* (Vol. 2388, No. 1, p. 012062). IOP Publishing.
112. Xaydarov, I. U., Ergashev, R. N., Solijonov, B. A., & Sirojiddinov, A. A. (2022, November). IMKONIYATI CHEKLANGAN NOGIRON BOLALAR UCHUN ZAMONAVIY MASOFAVIY O'QITISH TEXNOLOGIYALARIDAN FOYDALANISH. In *Proceedings of Scientific Conference on Multidisciplinary Studies* (Vol. 1, No. 2, pp. 82-87).
113. Отажонов, С., Эргашев, Р., & Юнусов, Н. (2013). Изучение поверхностной рекомбинации гетеропереходов на основе p CdTe–n CdS и p CdTe–n CdSe. *SCIENCE AND WORLD*, 109(9), 26.
114. Abduraxmonova, N., & Abduvaxobov, G. I. O 'QUV LUG 'ATINI TUZISHNING NAZARIY METODOLOGIK ASOSLARI. *СЎЗ САНЪАТИ ХАЛҚАРО ЖУРНАЛИ*, 103.
115. Абдурахмонова, Н., & Абдувахобов, Г. (2021). O 'QUV LUG 'ATINI TUZISHNING NAZARIY METODOLOGIK ASOSLARI. *МЕЖДУНАРОДНЫЙ ЖУРНАЛ ИСКУССТВО СЛОВА*, 4(6).
116. Abduvahobov, G. (2021). About the concept of computer lexicography. *ISJ Theoretical & Applied Science*, 06 (98), 664-668.
117. Iminov, B. B. (2020). INNOVATIVE CULTURAL LINKS ARE AN IMPORTANT FACTOR IN SOCIAL DEVELOPMENT. *Scientific and Technical Journal of Namangan Institute of Engineering and Technology*, 2(3), 263-270.
118. Iminov, B. B. (2019). A PHILOSOPHICAL APPROACH TO INNOVATIVA AND CULTURAL-RELATIONS AT A NEW STAGE OF DEVELOPMENT. *Scientific and Technical Journal of Namangan Institute of Engineering and Technology*, 1(5), 157-162.
119. Vosiljonov, A. (2022). Basic theoretical principles of corpus linguistics. *Academicia Globe*, 3(02), 173-175.
120. Vosiljonov, A. (2022). Lingvistik tadqiqotlarda korpus o 'rganish obyekti sifatida. *Ijtimoiy fanlarda innovasiya onlayn ilmiy jurnali*, 2(11), 176-182.
121. Vosiljonov, A. (2022). PRAGMALINGVISTIKA VA UNING TAHLILIIY SHAKLLANISH TARIXI. *Science and innovation*, 1(B8), 99-105.

122. Vosiljonov, A., & Isaqova, X. (2023). EFFECTIVENESS OF MOTHER TONGUE EDUCATION IN THE PRIMARY GRADES. *International journal of advanced research in education, technology and management*, 2(2).
123. Vosiljonov, A. (2022). PRAGMALINGUISTICS AND THE HISTORY OF ITS ANALYTICAL DEVELOPMENT. *Science and Innovation*, 1(8), 99-105.
124. KHALIMBOYEVA, F., & VOSILJONOV, A. (2023). MAKTABGACHA YOSHDAGI BOLALAR DIQQATINI RIVOJLANTIRISH MUAMMOSINI NAZARIY O'RGANILISHI. *Journal of Pedagogical and Psychological Studies*, 1(5), 94-98.
125. Dilshodbek o'g'li, R. S., & Boxodirjon o'g'li, V. A. (2022). XORIY PSIXOLOGLARINING ISHLARIDA SHAXSNING TADQIQ ETILISHI. *INNOVATIVE DEVELOPMENTS AND RESEARCH IN EDUCATION*, 1(12), 39-47.
126. Vosiljonov, A., & Abdullazizova, R. (2023). HIGH-SPIRITUAL MATURITY, IDEALITY AND PEDAGOGICAL VIEWS OF THE CLASS LEADER. *Modern Science and Research*, 2(6), 1182-1186.