



No5(4)
2026

- 13.00.00 Pedagogika fanlari
- 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
- 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
- 13.00.03 Maxsus pedagogika
- 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
- 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
- 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
- 13.00.07 Ta'limda menejment
- 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
- 13.00.09 Ijtimoiy pedagogika
- 07.00.00 Tarix fanlari
- 19.00.00 Psixologiya fanlari
- 01.00.00 Fizika-matematika fanlari
- 02.00.00 Kimyo fanlari
- 03.00.00 Biologiya fanlari
- 09.00.00 Falsafa fanlari
- 10.00.00 Filologiya fanlari
- 11.00.00 Geografiya fanlari

M AKTABGACHA VA AKTAB TA'LIMI

Pedagogika, psixologiya fanlariga ixtisoslashgan ilmiy jurnal

MAKTABGACHA VA MAKTAB TA'LIMI



Elektron nashr. 322 sahifa,
18-may, 2026-yil.

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“Maktabgacha va maktab ta'limi” jurnali O'zbekiston Respublikasi Oliy attestatsiya komissiyasining quyidagi qarorlariga asosan pedagogika va psixologiya fanlari bo'yicha falsafa doktori (PhD) hamda fan doktori (DSc) ilmiy darajasiga talabgorlarning dissertatsiyalaridagi asosiy ilmiy natijalarni chop etish uchun milliy ilmiy nashrlar ro'yxatiga kiritilgan:

Pedagogika fanlari bo'yicha: OAK Kengashi tavsiyasi (26.08.2024-y., №11-05-4381/01) asosida:

- Ekspert kengashi (29.10.2024-y., №10)
- Rayosat qarori (31.10.2024-y., №363/5)

Psixologiya fanlari bo'yicha: Toshkent davlat pedagogika universiteti murojaatiga asosan OAK tavsiyasi (24.04.2025-y., №11-05-2566/01):

- Ekspert kengashi (25.05.2025-y., №10)
- Rayosat qarori (08.05.2025-y., №370/5)

“Maktabgacha va maktab ta'limi”
jurnali

26.09.2023-yildan

O'zbekiston Respublikasi Prezidenti
Administratsiyasi huzuridagi Axborot
va ommaviy kommunikatsiyalar
agentligi tomonidan **№C-5669363**
reyestr raqami tartibi bo'yicha
ro'yxatdan o'tkazilgan.

Litsenziya raqami: **№136361**

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ORGANIZING PHYSICS LESSONS IN GENERAL EDUCATION SCHOOLS BASED ON GAMIFICATION ELEMENTS

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Abstract: This article highlights the theoretical foundations, practical methods, and pedagogical effectiveness of using gamification elements in organizing physics lessons in general education schools in a modern and efficient manner. The integration of game mechanisms into the learning process is aimed at increasing students' interest in the subject and enabling a deeper understanding of physics concepts.

Key words: gamification, physics education, game-based learning, motivation, interactive methods, pedagogy, mechanisms, methodology.

Annotatsiya: Ushbu maqolada umumta'lim maktablarida fizika darslarini zamonaviy va samarali tashkil etishda geymifikatsiya elementlaridan foydalanishning nazariy asoslari, amaliy usullari hamda pedagogik samaradorligi yoritilgan. O'yin mexanizmlarini ta'lim jarayoniga integratsiya qilish o'quvchilarning fanga bo'lgan qiziqishini oshirish va fizika tushunchalarini yanada chuqurroq o'zlashtirishga xizmat qiladi.

Kalit so'zlar: geymifikatsiya, fizika ta'limi, o'yin asosida o'qitish, motivatsiya, interaktiv metodlar, pedagogika, mexanizmlar, metodika.

Аннотация: В данной статье рассматриваются теоретические основы, практические методы и педагогическая эффективность использования элементов геймификации при современной и эффективной организации уроков физики в общеобразовательных школах. Интеграция игровых механизмов в учебный процесс направлена на повышение интереса учащихся к предмету и обеспечивает более глубокое усвоение физических понятий.

Ключевые слова: геймификация, обучение физике, игрофикация, мотивация, интерактивные методы, педагогика, механизмы, методика.

INTRODUCTION

Modern education requires students to be active, think independently, and develop problem-solving skills. Especially in mastering physics – a subject full of abstract and complex theoretical concepts – traditional teaching methods often fail to produce the desired results. Therefore, applying gamification elements in the learning process is recognized as an effective method for increasing student motivation. Through gamification, students become direct participants in the lesson, and game elements make the learning process engaging, interactive, and goal-oriented ^[1].

ANALYSIS AND RESULTS

Gamification refers to the application of game mechanisms, rules, and reward systems in the educational process in order to increase students' motivation and engagement. In physics lessons, this approach serves as an effective pedagogical tool for strengthening active learning, developing teamwork skills, and creating a healthy competitive environment among students. Through gamification, complex theoretical concepts in physics become easier to understand because students participate directly in interactive and practice-oriented activities ^[3].

One of the most commonly used gamification elements in physics education is the point and rating system. Awarding points for completed tasks and classroom activities encourages students to participate more actively

in lessons. Weekly or monthly rankings motivate learners to improve their academic performance continuously. Another important element is the use of badges and achievements. Students can earn special titles such as "Mechanics Expert," "Newton's Laws Specialist," or "Optics Master" after successfully mastering particular topics. Such achievements not only increase students' interest in the subject but also help monitor their educational progress.

Quests and mission-based activities are also widely applied in physics lessons. In these activities, students' complete step-by-step tasks aimed at solving a practical problem or achieving a specific goal. For example, learners may restore an electrical circuit, explain a physical phenomenon, or conduct an experiment to "activate an energy source." These methods develop analytical thinking, creativity, and problem-solving abilities. In addition, simulators and virtual laboratories, including platforms such as PhET and Algodoo, make it possible to visualize abstract physical concepts more effectively. Virtual laboratories provide students with opportunities to conduct experiments safely, observe physical processes, and analyze how changes in parameters influence results. Gamification can also be implemented through competitive group games such as "Formula Marathon," "Experiment Battle," and "Electric Circuit Constructor." These activities encourage collaborative learning and improve students' communication and teamwork skills. As a result of applying gamification in physics lessons, students demonstrate greater interest in the subject, participate more actively in classroom activities, and understand theoretical concepts more easily. Furthermore, gamification contributes to the development of creativity, analytical thinking, and independent learning skills ^[4].

Despite its advantages, the effective implementation of gamification requires careful planning by teachers. Excessive competition among students or an overemphasis on game elements may reduce attention to educational objectives. In some cases, technical limitations and insufficient resources can also create difficulties in organizing game-based learning activities. Moreover, not all students respond equally to gamified strategies; therefore, teachers should adapt gamification methods according to students' individual needs and learning characteristics ^[6].

CONCLUSION

Game-based teaching methods develop students' competitiveness, creativity, teamwork, and independent-thinking skills. This not only improves academic performance but also enhances students' interest in and positive attitudes toward the subject. Thus, gamification enriches lessons by making them interactive, motivational, and practice-oriented. As a result, students can better master complex physics concepts and relate them to real-life processes. From the teacher's perspective, gamification is also effective because it increases lesson efficiency, takes students' psychological states into account, and promotes the integration of modern technologies into education ^[5].

Overall, gamification elements represent an innovative and promising approach to improving physics teaching methodology. Their systematic and scientifically grounded implementation can significantly enhance educational quality and student motivation.

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- 13.00.00 Pedagogika fanlari
 - 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
 - 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
 - 13.00.03 Maxsus pedagogika
 - 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
 - 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
 - 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
 - 13.00.07 Ta'limda menejment
 - 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
 - 13.00.09 Ijtimoiy pedagogika
 - 07.00.00 Tarix fanlari
 - 19.00.00 Psixologiya fanlari
 - 01.00.00 Fizika-matematika fanlari
 - 02.00.00 Kimyo fanlari
 - 03.00.00 Biologiya fanlari
 - 09.00.00 Falsafa fanlari
 - 10.00.00 Filologiya fanlari
 - 11.00.00 Geografiya fanlari



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2026. №5(4)

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"Maktabgacha va maktab ta'limi" jurnali 26.09.2023-yildan O'zbekiston Respublikasi Prezidenti Adminstratsiyasi huzuridagi Axborot va ommaviy kommunikatsiyalar agentligi tomonidan №C-5669363 reyestr raqami tartibi bo'yicha ro'yxatdan o'tkazilgan.
Litsenziya raqami: № 136361.

Manzilimiz: Toshkent shahar, Yunusobod tumani
19-mavze, 17-uy.