



MODERN SCIENTIFIC CHALLENGES AND TRENDS

COLLECTION OF SCIENTIFIC WORKS
OF THE INTERNATIONAL SCIENTIFIC CONFERENCE

Issue 2(72)

Warsaw
2025



MODERN SCIENTIFIC CHALLENGES AND TRENDS

ISSUE 2(72)

February 2025

Collection of Scientific Works

WARSAW, POLAND
Wydawnictwo Naukowe "iScience"
26-27 February 2025

ISBN 978-83-949403-3-1

MODERN SCIENTIFIC CHALLENGES AND TRENDS: a collection scientific works of the International scientific conference (26-27 February, 2025) - Warsaw: Sp. z o. o. "iScience", 2025 - 95 p.

Editorial board:

Bakhtiyor Amonov, Doctor of Political Sciences, Professor of the National University of Uzbekistan

Baxitjan Uzakbaevich Aytjanov, Doctor of Agricultural Sciences, Senior Scientific Researcher

Bugajewski K. A., doktor nauk medycznych, profesor nadzwyczajny Czarnomorski Państwowy Uniwersytet imienia Piotra Mohyły

Yesbosi'n Polatovich Sadi'kov, Doctor of Philosophy (Ph.D), Nukus branch Tashkent state agrarian university

Tahirjon Z. Sultanov, Doctor of Technical Sciences, docent

Shavkat J. Imomov, Doctor of Technical Sciences, professor

Nazmiya Muslihiddinova Mukhiddinova, Doctor of Philology, Samarkand State University, Uzbekistan

Sayipzhan Bakizhanovich Tilabaev, Candidate of Historical Sciences, Associate Professor. Tashkent State Pedagogical University named after Nizami

Marina Berdina, PhD

Hurshida Ustadjalilova, PhD

Dilnoza Kamalova, PhD (arch) Associate Professor, Samarkand State Institute of Architecture and Civil Engineering

Juraeva Sarvinoz Boboqulovna, Associate Professor of Philological Science, head of chair of culturology of Khujand State University named after academician B. Gafurov (Tajikistan)

Oleh Vodianyi, PhD

Languages of publication: українська, русский, english, polski, беларуская, казақша, о'zbek, limba română, кыргыз тили, Հայերեն

The compilation consists of scientific researches of scientists, post-graduate students and students who participated International Scientific Conference "MODERN SCIENTIFIC CHALLENGES AND TRENDS". Which took place in Warsaw on 26-27 February, 2025.

Conference proceedings are recommended for scientists and teachers in higher education establishments. They can be used in education, including the process of post - graduate teaching, preparation for obtain bachelors' and masters' degrees.

The review of all articles was accomplished by experts, materials are according to authors copyright. The authors are responsible for content, researches results and errors.

ISBN 978-83-949403-3-1

© Sp. z o. o. "iScience", 2025

© Authors, 2025

TABLE OF CONTENTS

SECTION: ECOLOGY

**Nepsha Oleksandr V., Epifantsev Denys E., Koval Dmytro O.,
Vinnichenko Olena M., Menshalnikov Ivan O. (Zaporizhzhia, Ukraine)**

GLOBAL ENVIRONMENTAL PROBLEMS OF MANKIND AND WAYS

TO SOLVE THEM 5

SECTION: MEDICAL SCIENCE

Бугаевский Константин Анатольевич (Новая Каховка, Украина)

ГЕНЕТИКА И РЯД ИЗВЕСТНЫХ УЧЁНЫХ-ГЕНЕТИКОВ В ОТРАЖЕНИИ

НУМИЗМАТИКИ, ФАЛЕРИСТИКИ И БОНИСТИКИ НА ПАМЯТНЫХ

МЕДАЛЯХ, МОНЕТАХ И ТЕМАТИЧЕСКИХ ЗНАЧКАХ, БАНКНОТАХ 7

SECTION: PEDAGOGY

Kabylbekova Z.B., Aldiev A.A. (Astana, Kazakhstan)

REQUIREMENTS FOR THE FORMATION OF PROFESSIONAL COMPETENCE
OF A FUTURE TEACHER 18

Nepsha Oleksandr V., Hryshko Svitlana V., Prokhorova Larysa A.,

Levada Olga M., Zavyalova Tetiana V. (Zaporizhzhia, Ukraine)

FORMATION OF PUPILS' ENVIRONMENTAL COMPETENCE IN TEACHING
GEOGRAPHY IN THE NEW UKRAINIAN SCHOOL 22

Protcenko Andrii A., Tsybulska Viktoriya V., Nepsha Oleksandr V.,

Sukhanova Hanna P., Protcenko Нанна О. (Zaporizhzhia, Ukraine),

Sopotnytska Olena V. (Ternopil, Ukraine)

TASKS OF PHYSICAL EDUCATION OF PRIMARY SCHOOL PUPILS IN THE
CONDITIONS OF THE NEW UKRAINIAN SCHOOL 24

Егиазарян Ануш Карапетовна (Ереван, Армения)

ФОРМИРОВАНИЕ ТВОРЧЕСКОЙ ЛИЧНОСТИ ПРИ ОБУЧЕНИИ

ДЕКОРАТИВНО-ПРИКЛАДНОГО ИСКУССТВА 26

Ельшибеков Сабыржан Халмаханович (Балқаш, Қазақстан),

Смакова Тогжан Сагидуллаевна, Ельшибекова Назерке Халмахановна,

Абдуова Назиля Мухаммедгалиевна (Қарағанды, Қазақстан)

БАСТАУЫШ СЫНЫПТАҒЫ ДЕНЕ ШЫНЫҚТЫРУ САБАҚТАРЫ 32

Таганова А.М., Орынбасарова Б.Б. (Ақтөбе, Қазақстан)

ПСИХИКАЛЫҚ ДАМУЫ ТЕЖЕЛГЕН БАЛАЛАРҒА АРНАЛҒАН СЕНСОРЛЫҚ
ДАМЫТУШЫ ОЙЫНДАР 37

SECTION: TECHNICAL SCIENCE. TRANSPORT

Мищенко Владимир Иванович (Караганда, Казахстан)

ВОЗНОВЛЯЕМЫЕ ИСТОЧНИКИ ЭНЕРГИИ В СИСТЕМАХ

ТЕПЛОСНАБЖЕНИЯ 42

UDC 373.31+796.011.3

Protcenko Andrii A., Tsybulska Viktoriya V., Nepsha Oleksandr V.,
Sukhanova Hanna P., Protcenko Hanna O.
Bohdan Khmelnytsky Melitopol State Pedagogical University
(Zaporizhzhia, Ukraine),
Sopotnytska Olena V.
Volodymyr Hnatuk Ternopil National Pedagogical University
(Ternopil, Ukraine)

TASKS OF PHYSICAL EDUCATION OF PRIMARY SCHOOL PUPILS IN THE CONDITIONS OF THE NEW UKRAINIAN SCHOOL

Abstract. *The article deals with the importance of physical education and physical education classes in the formation of a fully developed personality. Attention is focused on the role of physical education in the general educational process, its importance for health promotion, development of motor skills and formation of moral and volitional qualities. The article analyses the concept of physical education in the New Ukrainian School, which is based on an individual approach, partnership pedagogy and the creation of comfortable learning conditions. Particular attention is paid to the formation of a sustainable interest in physical activity in schoolchildren, the use of various forms of physical education and the impact of physical culture on the overall development of society.*

Key words: physical education, physical culture, students, healthy lifestyle, physical activity, physical fitness, New Ukrainian School, partnership pedagogy, general development.

Physical education and physical training play an important role in the training of a well-rounded person. The modern pace of life demands that young people take care of their physical improvement, have knowledge of personal and public hygiene, lead a healthy lifestyle, and engage in physical exercise independently and systematically.

Physical education is an organic part of general education and is therefore characterised by all the general features inherent in the educational process, which is aimed at solving certain specific tasks. The main focus of physical education is the formation of a healthy, mentally prepared, socially active, morally stable, physically improved and prepared for the future profession person.

The New Ukrainian Concept (NUS) takes into account the individual abilities of the child and is based on the pedagogy of partnership, cooperation between teacher, student and parents, who will be equal participants in the educational process, which primarily enables the teacher to develop their own author's programmes, methods, strategies and teaching aids [1].

Therefore, one of the main tasks of the school is to take into account the individual abilities of the child, preserve the health of students, the pedagogy of partnership, cooperation between teacher, student and parents, and the creation of psychologically comfortable conditions at school.

In modern conditions, an important task for families and schools in promoting children's health is to develop a strong interest in physical exercise at school and at home. In

this regard, it is necessary to use all forms of physical education at school, as well as independent physical exercises at home in order to increase physical activity, strengthen health, and improve physical fitness of schoolchildren.

In the process of physical education of schoolchildren, various issues are addressed: moral and volitional qualities of the individual are brought up; vital motor actions and the ability to perform them in various conditions are formed; motor qualities are developed [2]. Physical education of younger pupils has its own peculiarities in contrast to physical education of older pupils. However, it is based on the general principles of physical education.

Studying these issues will allow us to better understand the peculiarities of organising physical education of primary school students in NUS.

Physical culture is an important part of the general culture of society, a product of its creative activity. At each historical stage, it undergoes changes depending on the opportunities created by a particular social formation for its development.

Each of us has probably dreamed of being strong, healthy, enduring, agile and courageous, of having an athletic figure, of being able to run fast and long, jump high and far, swim and possess all the skills that are constantly needed in life. We, physical education teachers, will help to make this dream come true. After all, the vast majority of children are born practically healthy. Maintaining and improving children's health in a modern school is quite problematic.

Physical education in secondary schools is aimed at preserving and strengthening the health of students, developing motor skills, increasing the level of physical fitness, and forming value orientations towards a healthy lifestyle.

REFERENCES:

1. Нова українська школа: порадник для вчителя / за заг. ред. Н. М. Бібік. К.: Літера ЛТД, 2018. 160 с.
2. Шевчук О. Особливості навчання фізичної культури молодших школярів в умовах Нової української школи. Фізичне виховання, спорт і культура здоров'я у сучасному суспільстві. № 4(60). 2022. С. 53-58.