

# Introduction of a new science program in schools of Uzbekistan

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**Abstract:** This article discusses the new subject Science in schools of Uzbekistan and its hours by grade

**Key words:** Education, science, natural science, class, school, chemistry, biology, physics, training.

In Uzbekistan, by tradition, they give a name to the year; in accordance with this, a program is adopted to implement the action strategy. 2023 was no exception - it was declared the Year of caring for people and quality education.

President Shavkat Mirziyoyev emphasized the importance of continuing reforms in the education sector. The discussed draft presidential decree on the state program for 2023 sets the task of "gradually, starting from the 2023/2024 academic year, to introduce a new curriculum into general education institutions aimed at educating students in the spirit of universal and national values and patriotism, as well as developing their communication skills, critical and creative thinking, collaboration and research skills."

This year, all schools in Uzbekistan switched to teaching in grades 1–4 using textbooks developed on the basis of "advanced foreign experience"; this task is formulated as "the introduction of primary school textbooks based on international standards"), and for grades 5–11 classes, "measures for the implementation of textbooks and educational and methodological complexes of specialized educational institutions in STEAM subjects, including taking into account foreign experience," should be determined.

"The advantage and significance of the subject "Natural Sciences" lies in the fact that through this subject the student will understand the world as a whole, and he will develop a scientific worldview." It is reported that the introduced subject will expand students' opportunities for successful participation in such international research, like PISA, TIMSS, PIRLS. The Science subject is written in a simple language that students can understand and consists of basic concepts of natural sciences. The subject "Natural Sciences" will combine the subjects "The World Around Us," taught in the first and second grades, and "Natural Science," taught in the 3rd and 4th grades. The subject will also include school disciplines such as geography, biology, physics, taught to children from the 6th grade, and chemistry, introduced into the school curriculum from the seventh grade.

Our main goal in our work is for the student to be able to apply the knowledge gained in science lessons in everyday life.

The new curriculum involves a phased implementation of the new curriculum from the 2023/2024 academic year. This development of the National Curriculum "with the involvement of qualified teachers, scientists, psychologists and foreign experts" was entrusted to the Ministry of Public Education and the State Inspectorate for Supervision of the Quality of Education by presidential decree of November 6, 2020. The completion of the full implementation of the program by 2026 is provided for by the Development Strategy of New Uzbekistan for 2022–2026 (goal 42) and the

National Program for the Development of Public Education in 2022–2026, approved by decrees of the head of state. The previous state educational standards for general secondary and secondary specialized education, approved in 2017 for 12-year education, became invalid in 2021.

According to the Republican Education Center, 246 experts were involved in the development of curricula in 22 subjects, including school teachers, methodologists, professors and university teachers, as well as international experts from the United Nations Children's Fund (UNICEF) and the United States Agency for International Development (USAID). The center notes that “national curricula identify the skills that students need to develop based on the requirements of the 21st century.”

The development of such a voluminous document as the National Curriculum, covering all stages and subjects of compulsory education, is a labor-intensive and costly process.

According to the draft decree, textbooks based on “advanced foreign experience” or “international standards” will be introduced in primary grades, and for high schools measures will be developed to introduce textbooks in STEAM subjects “including taking into account foreign experience”, as well as continued work on the publication of textbooks based on the National Curriculum in spiritual and moral patriotic education.

So, at the moment we have the following:

- Textbooks for grades 1–3 and 6, 7, 10, developed by the Republican Education Center with the support of UNICEF based on the National Curriculum;
- Textbooks for grades 1–4 on native language and reading literacy, as well as mathematics, developed with USAID funds;
- Textbooks 1–4 - classes developed by a special working group, which also began developing textbooks for high schools;
- Cambridge textbooks on physics and biology for high school, the localization of which was started by the Agency for Specialized Educational Institutions.

All of them are based on international experience. In 2023, all schools in the Republic of Uzbekistan received these textbooks, of course, everything new is scary, but in this case, excellent work was done; this natural science textbook contains the following directions.

1. The idea of the diversity of the world;
- 2) the idea of the integrity of the world;
- 3) the idea of respect for the world.

### **Main Goals And Objectives**

To form in students a holistic picture of the world, an awareness of man’s place in it, the development of the right attitude and interaction with people, society, and nature; to form elementary ideas and concepts about objects and phenomena of nature and social life, to lead students to an understanding of the connections in the “nature - man - society” system and an awareness of their place in the world around them;

students’ assimilation of basic knowledge about the structural features of the human body, the components of a healthy lifestyle, to develop on their basis the necessary skills and habits of a healthy lifestyle (healthy lifestyle), the belief that a healthy lifestyle is a necessary condition for human existence in modern environmental conditions; contribute to the education of ecological culture and humane attitude of schoolchildren towards all living things, develop the need for knowledge of nature and respect for it;

to form experience in intellectual and creative activity, to develop cognitive interest in the study of the subject and educational activities, general academic and subject skills necessary for further mastery of systematic knowledge in biology, geography, physics, chemistry, astronomy, social science and history.

A teacher in science lessons can use the following methods and technologies:

1. Technological approach to learning.
2. Transition from informational and explanatory methods of teaching to activity-based and communicative ones.
3. Transfer of teaching methods from a reproductive basis to a research basis.

4. Verbal teaching methods.
5. Work with educational and popular science literature.
6. Visual and demonstration methods.
7. Practical methods.
8. Observation as a visual and practical method.
9. Experimental method of studying nature.
10. Method of laboratory and practical work.
11. Modeling method.
12. Problem-based learning technologies.
13. Design and research technologies.
14. Communicative teaching technologies.
15. Information technologies for education.
16. Game learning technologies.

**Literature.**

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