

## LEARNING PLATFORMS IN THE DIGITALIZATION OF CHEMICAL EDUCATION

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**Annotation.** The article is devoted to the use of digital educational resources for teaching chemistry in the context of the development of information and communication technologies. The use of information technology contributes to a better assimilation of knowledge by students.

**Key words:** chemistry, teaching methods, digital resources, learning platforms, digitalization of education.

Chemistry is the central fundamental science of nature, closely interacting with other natural sciences. Chemical education creates the conditions for an adequate perception by a person of the surrounding reality and awareness of his role in the material world, it plays a crucial role in shaping the scientific worldview and ecological culture of every member of a modern civilized society. The original language of chemistry and its peculiar patterns contribute to the development of imaginative thinking and the creative growth of a person. Chemistry is a powerful tool for transforming nature and society. The surrounding world is constantly changing and its properties are determined by the chemical reactions that take place in it. In order to control these reactions, it is necessary to deeply understand the laws of chemistry.

The rapid introduction of digital educational resources into the learning process leads to the search for effective technologies for their use in teaching chemistry. As practice shows, the subject of chemistry is quite complex and time-consuming in content. In such cases, information and communication technologies help the teacher. Applying ICT technologies in the classroom regularly and systematically, the teacher thereby increases students' motivation for learning, interest in obtaining new knowledge in chemistry.

However, one important aspect should be noted that the introduction of information and communication technologies in the process of teaching chemistry should be as an auxiliary material in the structure of chemical education, and not an assistant in the implementation of a full transition to the online learning format. Today, one of the most relevant options for using IC technologies are learning platforms.

A digital educational platform is an information space that brings together participants in the learning process, which provides an opportunity for remote education, provides access to methodological materials and information, and also allows testing to control the level of knowledge of students. The popularity of

electronic educational platforms with interactive learning opportunities is growing, especially in the conditions dictated by modern reality.

The benefits of educational platforms include:

- the student can receive information at a convenient time, regardless of location;
- use of modern technologies and multimedia means;
- educational material can be visual, interesting and accessible for understanding and mastering;
- independent work develops self-organization, discipline, initiative;
- obtaining statistics at all stages of training on the effectiveness of the methodology and feedback from students on the quality of teaching and the availability of material, which makes it possible to improve the platform and the learning process.

Depending on the educational goal, learning platforms may include digital educational content, digital video materials in the form of a series of educational virtual laboratories, digital video fragments of laboratory work and video experiments with methodological support for their implementation in compliance with safety regulations. At the same time, the content of the video materials must correspond to the working program of the academic discipline.

Digital educational resources of educational platforms allow to increase motivation, optimize the educational process, involve students in it as subjects of the educational space, develop independence, creativity and critical thinking. The use of modern information technologies in work, in addition to solving psychological problems, helps to improve the information culture of students, parents and teachers.

Today, the majority of modern students and students are technically and psychologically ready to use digital technologies in education, and it is necessary to consider new opportunities for more efficient use of the potential of educational platforms. The solution to this problem requires organizational efforts on the part of education leaders, teachers to implement strategies, forms and methods of teaching in the context of the digitalization of education.

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