



## **ADVANTAGES OF USING 3D STUDIO MAX FOR CONDUCTING CHEMICAL EXPERIMENTS**

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| <b>Article history:</b>   | <b>Abstract:</b>   |
| <b>Received:</b> 10 <sup>th</sup> July 2021   | The rapid development of information systems and telecommunication technologies in the developed countries of the world has a positive impact on improving the quality and efficiency of education by expanding access to digital educational resources, interactive software. |
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The level of introduction and support of modern information technologies and software in the educational process has increased in the framework of systemic reforms to develop the base of e-learning resources of educational institutions based on comprehensive innovative approaches, strengthen the material and technical base, and radically modernize the system of teacher training. According to the International Training Center (USA, Maryland), interactivity is material as quickly raises the level of mastery.

The results of this study have been dubbed the "pyramid of learning". In it, the lowest mastering was passive methods (lecture 05%, reading - 10%), while the most interactive methods (discussion groups - 50%, practice through action - 75%, teaching or quick application of others - 90%) were the highest. Conducting interesting interactive lessons and laboratory work in chemistry at home; additional material to virtual laboratory work report materials to show as; students, to conduct various competitions, can also use computer rooms to monitor the acquisition of knowledge. Interactive technologies adapt very well to the process of teaching chemistry and do not affect the essence of the established educational standards. In this regard, multimedia presentations can be cited as part of interactive education related to chemistry.

At any stage of learning a topic from multimedia presentations, the lesson is year at what time it is advisable to use. Presentations allow the teacher to take a creative approach to the educational process, to demonstrate professional skills, to prevent the formal passage of the lesson. Presentation of the training material in the form of a multimedia presentation saves the prescribed training time.

Active teaching methods, is the topic taught in the course of the lesson, so that the teacher's lesson is high quality and effective, and should be appropriate to the learning objective, during and after the lesson the methods used should serve to achieve the objective of the course. Teaching students with new non-traditional methods is as follows: - Free and independent thinking; - Behave comfortably in the team; - To expand the scope of knowledge; - To take an active part in public affairs; - To develop the culture of speech and communication; - Influences the free, meaningful expression of one's opinion. The use of "programmed learning" in the teaching process is crucial in achieving the goal provides opportunities.

Programmed learning is the mastery of a programmed learning material by a teacher. This tool can be a computer, a programmed textbook, a movie simulator, and so on. The programmed learning material consists of several small pieces of educational information ("frames", "files", "steps") and is presented in a certain sequence. When using electronic information educational resources in the teaching of chemistry in general secondary schools, the problem of expensive reagents, equipment, and their lack is positively addressed by the teacher.

In the development of modern education, the need for teaching and learning intensification is associated with a significant increase for information. It is important not to forget about the final effectiveness of the quality of mastering. Quality of educational process technological improvement of the educational process, expansion of e-learning opportunities through the use of interactive technologies play an important role in ensuring the effectiveness of a. The effective use of interactive technologies in educational practice is inextricably linked with the detailed mastery of the system of psychological factors, the activation of the subjects.

Ensuring that a person is a mature person, the perfection of the harmonious spiritual world, the deep intellectual potential formation is primarily determined by the specific goals set in the educational process. How creative and demanding approach to the content of education serves as an influential force in opening the door to a number of psychological opportunities for young people, the ability to effectively use their intellectual potential, the

formation of confidence in their full self-expression. It is also important to ensure the continuity of the use of information technology in the education system serves as one of the factors in the effective organization of integration.

Today's information age requires the youth of tomorrow to have positive qualities, to be able to self-assess in various problematic situations, to have independent thinking, to use their mental and spiritual potential in the pursuit of higher endeavors. These are human qualities, ethics, which are embodied in a properly organized effective teaching and learning process characteristics are determined by the level of creative activity that becomes the skill.

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