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MODERN METHODOLOGICAL METHODS IN TEACHING THE SUBJECT OF SALTS

Badalboyeva Dilorom daughter of Sobirjon
Koshakov Doniyorbek son of Abdumutal
Andijan State Medical Institute Academic Lyceum, High-Class Chemistry Teachers

ABSTRACT

This article analyzes the methods of teaching the subject of salts based on modern methodological approaches. The use of methods such as interactive educational tools, laboratory experiments, multimedia presentations, team projects, and STEM approach will help students to learn more effectively and learn more about the subject. The possibility of enriching the educational process with innovative technologies through flipped classroom, gamification, and mobile applications is also highlighted. The article promotes the use of modern methods in the teaching of chemistry and directs students to the practical application of more active teaching methods.

Modern methodical methods in teaching the topic of salts help to increase the effectiveness of education and help students to acquire knowledge more deeply. Here are some modern approaches and methods:

1. Interactive education

A variety of interactive tools, such as quizzes, games, and problem-solving activities, can be used to actively engage students in the lesson. In this way, students compete with each other and thus make the subject more interesting.

2. STEM approach

Using the STEM (Science, Technology, Engineering, Mathematics) approach, the subject of salts can be explained in connection with various fields. For example, learning how to use the chemical properties of salts in technological processes is of practical interest to students.

3. Laboratory experiments

By studying the physical and chemical properties of salts in a laboratory setting, students gain a deeper understanding of the subject by seeing it with their own eyes. These hands-on experiences help students gain a deeper understanding of the material.

4. Multimedia presentations

Reviving the topic of salts with the help of audio, video and animations serves to make the lessons visual and understandable. For example, explaining the crystal structure of salts using 3D animations gives good results.

5. Case study (Problem analysis)

Studying and finding ways to solve problems related to salts in everyday life develops analytical thinking in lessons. For example, discussing with students how to separate salt from seawater or how to reduce the negative effects of salts in groundwater.

6. Team projects

Divide the students into small groups and organize a research on different salts and their importance in industry and presentation of their results. It serves not only to learn the subject, but also to develop communication skills.

7. Flipped Classroom

In this method, students study the topic independently at home beforehand (for example, through videos or articles), and in the classroom they are engaged in analyzing the topic and solving practical examples. In this way, the teacher spends time helping more students in class.

8. Gamification

By making the topic of salts into a game, it is possible to engage students in a more active and interesting way. For example, teaching various chemical reactions and their products in the form of a game gives good results.

9. Mobile applications and online platforms

The use of various mobile applications or online platforms in teaching students is also a modern method. For example, using interactive tests such as Kahoot, Quizlet, or programs that visualize the chemical properties of salts.

The above methods help to increase the interest of students in studying the topic of salts and to master the topic more effectively.

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