

METHODS OF TEACHING BIOLOGY - THE SCIENCE OF THE SYSTEM IN THE PROCESS OF EDUCATION AND UPBRINGING STUDENTS

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Abstract:The main task of the BCH at the present stage is the formation and development of a person on the basis of biological knowledge who can competently behave in nature and society. This article is about how to fill the content of biological education with the social activity of students, which will allow them to apply the knowledge and skills acquired in the learning process in practice.

Keywords and phrases: knowledge, values, curriculum, practice, science, theoretical provisions, evaluation, selection, implementation

The methodology of teaching biology is a private didactics that explores the features of the process of teaching biology in the lyceum. The methodology is not methodical recommendations for lyceum practice, but a science, the theory of which develops on the basis of the tasks set by society for lyceum, taking into account the goals and objectives of the lyceum subject of biology.

At the stage of modernization of lyceum education, the tasks of methodological science become more complicated and change. She focuses her attention on adjusting the goals of teaching biology, which should be aimed at educating by means of the subject an active, proactive, creative personality.

A student receiving a pedagogical education must:

- understand the role of educational institutions in society, the main problems of the disciplines that determine the specific area of its activity;
- know the main legislative documents relating to the public education system, the rights and obligations of the subjects of the educational process (teachers, leaders, students and their parents);
- understand the conceptual foundations of the subject, its place in the general system of knowledge and values, as well as in the basic curriculum;
- take into account in pedagogical activity the individual differences of students, including age, social, psychological and cultural;
- understand the general principles of designing the pedagogical process in teaching biology, based on the use of norms and rules that formulate the essence of the concept of "method of teaching biology"
- have sufficient knowledge of the subject for analytical evaluation, selection and implementation of an educational program that meets the level of preparedness of students, their needs, as well as the requirements of society;
- to know the scientific and theoretical foundations of the biology course in terms of the depth of factual material and the volume necessary and sufficient for training in accordance with the requirements of the State Educational Standard for Biological Education;
- to know the methodological and general theoretical patterns of selection, structuring and variable construction of the content of the biology course in the lyceum, its distinctive features in the conditions of profile education for the period 2005 - 2010.;
- understand the main methodological approaches to the study of the biology course at lyceum;
- know the technique of staging and the methodology for conducting a biological experiment in the volume of a biology course at lyceum;
- own the methodology for solving computational, logical and other types of problems within the framework of the requirements provided for by the basic biology course in the lyceum;

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- organize the learning activities of students, manage it and evaluate its results;
- apply the main methods of objective diagnostics of students' knowledge in the subject, make adjustments to the learning process, taking into account this diagnostics;
- use a computer and computer programs for the preparation of teaching materials;
- create and maintain a favorable learning environment conducive to the achievement of learning goals;
- develop students' interest in the subject and motivation for learning, form and maintain feedback.

Upon completion of the course for this program, the student in his activity should be able to:

- apply the acquired professional skills and abilities for the successful implementation of the process of teaching biology at the lyceum;
- to determine the content of biological education, the structure of the biology course in the lyceum, taking into account the type of general education;
- carry out the selection of methods and means of teaching and control, as well as forms of organization of educational and cognitive activity of students in accordance with the logic of the expediency of their use in specific conditions, which allows achieving the planned learning outcomes for a biology course in the lyceum;
- technologically competently analyze their own professional and methodological actions, correct and improve them on the basis of achieving the ultimate goal of teaching a biology course in a senior (profile) the lyceum.

The discipline "Theory and Methods of Teaching Biology" ends with writing a term paper and an oral exam, which checks the assimilation of the general theoretical, scientific, methodological and practical parts of the course material, as well as the ability to illustrate the main theoretical provisions with examples arising from the process of teaching the subject of biology.

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