

USE OF INTERACTIVE METHODS IN TEACHING BIOLOGY

SALOXIDDINOVA SHOHINA ULUG`BEKOVNA

Nurata district of Navoi region

25 secondary schools under the auspices of HTB

Biology teacher

ANNOTATION

This article discusses the science of biology and discusses the use of interactive methods in the effective teaching of this science.

METHOD OF FORMATION OF GENERAL BIOLOGICAL CONCEPTS IN STUDENTS

What is meant by biological knowledge?

Biological knowledge - consists of the concepts defined by the science of biology about the essential features and characteristics of living organisms, the vital processes that take place in them and the connections between them.

KEYWORDS: biological knowledge, educational material, living organisms, energy, organism, phylogenetic connection;

So, biological knowledge is a system of concepts, the formation of concepts in the teaching of biology

The issue comes to the fore. Formation and development of biological concepts The driving force of biological education is the basic unit of educational material content.

The analysis of biology curricula taught in general secondary schools allows to divide the concepts formed in students into groups:

General biological concepts; Specific biological concepts. It should be noted that general biological concepts play a key role in the content of biological sciences taught in general education schools.

The biological laws inherent in all living organisms and the biological sciences taught in general education schools Concepts that generalize specific biological concepts of academic disciplines are called general biological concepts.

General biological concepts include: The structure and vital unit of cell structure of living organisms; Unity of organ structure and function Interrelation of the organism and the environment;

The organism is a holistic system of self-government; Metabolism and energy metabolism; Genetic variability and reproduction of organisms; Such as the evolutionary development of the organic universe.

It is well known that general biological concepts are formed from a system of specific biological concepts, and each of them is developed in the context of biological sciences.

A biology teacher needs to be familiar with the content of these general biological concepts in order to form general, biological concepts in students.

Definition of specific biological concepts can be divided into the following groups:

Concepts of life processes in plants and animals; Concepts of plant and animal organs; concepts of ecological, systematic, phylogenetic connections between living organisms and the external environment.

The biology teacher analyzes the content of the topic in the direction of biological knowledge defined in the STS, taking into account the relationship between general biological and specific biological concepts, and then introduces the topic to students.

must choose the stages and methods of forming the concepts in the content.

The formation of students' understanding is carried out in the following stages:

- > Acceptance of educational material through the senses,
- > perception
- > to imagine
- > Remember
- > practical application
- > check the results
- > Summarize and draw conclusions

The teacher should follow these guidelines to help students develop understanding:

Selection of teaching aids that fully cover the content, taking into account the didactic purpose of the stage of formation of concepts in students.

It is known that teaching aids, along with the coverage of the content, prepare the ground for students to receive, comprehend, imagine, remember the learning material through the senses, and, if necessary, to apply their knowledge in practice using these tools.

Reasonable choice of teaching methods by the teacher, taking into account the didactic purpose of the concept formation phase, allows students to consciously master the learning materials and apply them in practice.

A didactic designed to monitor and assess students' understanding and handouts to increase the effectiveness of education serves.

Generalization of concepts by the teacher and the direction of knowledge of the concepts of teaching aids and methods used in the inference phase allows you to connect to general biological concepts.

References

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