

Innovative Pedagogical Technologies In Biology Teaching-As A Factor Of Development Of Future Teachers

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Annotation: *The use of modern educational technologies in biology lessons is highly effective, allowing students to develop their interests and needs in mastering the basics of science. In the process of teaching biology, modern educational technologies ensure the assimilation of teaching materials, textbooks, texts, and various didactic materials by the teacher and the student.*

Keywords: biology, students, academic, teaching assignments, textbooks, tables, talent.

INTRODUCTION.

In the process of teaching biology, modern educational technologies ensure the assimilation of instructional material by the teacher and the reader, textbook, text, various didactic materials. It is worth noting that the necessary condition for the process of introducing techniques and introducing them into practice is a creative approach. Without personal development, it is impossible to have growth and achievements in professional activity. Therefore, mastering the latest technologies, developing their own technologies as a valuable achievement is a difficult task without improving such professionally important qualities as creativity.

LITERATURE ANALYSIS AND METHODOLOGY.

In a general educational institution, the training of children with disabilities can be carried out only on the principles of differentiation and individualization (the preparation and implementation of individual groups of recipients of taxis by them, the preparation and implementation of a personal educational program (the training of individual groups of recipients of taxis by them, the preparation and implementation of a personal educational program.)

Extracurricular activities and extracurricular activities in the teaching of Biological Science, Organization of extracurricular activities on the basis of a competency approach; conducting laboratory exercises; skills in solving problems from biology; use of modern pedagogical technologies in professional activity; organization and conduct of lessons at the level of modern requirements should have competences. Recommendations for the organization and conduct of the module training from the module "methodology of teaching biology" is carried out in a theoretical and practical form.

In theoretical classes, information is given about the content of object-methodical complexes created in the subject of biology, the requirements for course work, the peculiarities of biology and the methodology of teaching science. In practical classes, it is taught to create workplaces on the basis of modern requirements, to evaluate the knowledge of students, extracurricular work and extracurricular activities, to conduct extracurricular activities, to observe and analyze lessons [1]. Training involves the use of technical means, mental attack, group thinking, working with small groups and other interactive methods of training. Given the interest of 5-11th students in biology, it is necessary to use much simpler and more game-style techniques. For example: "blits quest", "Domino", "biological fairy tale", "Bingo", "quiz" and others.

RESULTS AND DISCUSSION.

The "BBB" method of grades a and B of the 5th School in Chirchik city is defined as a conditional control method. The Test consisted of 25 students in the a-Class, 27 students in the B - Class. We conducted an experiment on the determination of biological generalization, comparison and abstraction abilities in these students and conducted the "BBB" method at the beginning of the test. In the processing of the results of the method, the level of development of students on these abilities is as follows: high - all tasks are correctly solved; high - one task is not solved correctly; average - 3 task is solved correctly; below the middle - 2 task is solved correctly.

№	Concepts	I know	I want to know	Know
1	Forming tissue			
2	Assimilation tissue			
3	Conductive tissue			
4	Separating tissue			
5	Mechanical tissue			
6	Dense tissue			
7	Covering tissue			

Class 6 A and b have defined the method "find a suitable answer" as a conditional control method. The test consisted of 23 students in a-class and 25 students in B-Class. The experiment on the determination of biological generalization, comparison and abstraction abilities in these students at the beginning of the test, we conducted the method "find a suitable answer". The level of development of students on these abilities in the processing of method results is as follows: good results were obtained in this method in the evaluation of students knowledge in Grade A, lower results were obtained in the evaluation of students knowledge in Grade B.

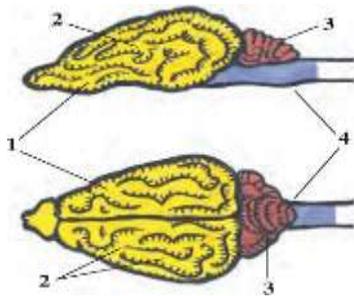
"Who am I" game-8 readers will be invited to doska. Without showing them, they put on their heads a drawing of chlorella, ulotriks, laminaria, chlamydomonada, isogameta, funeria, ulvantng on their heads. Sitting pupils describe the plants on their foreheads to the pupils who have fallen asleep, give information about them. It is necessary to find out the answer to the definition of a dreamer reader.

We defined the 6th Class A,b classes "who am I" as a conditional control method. The test consisted of 23 students in a-class and 25 students in B-Class .Experience in identifying biological generalization, comparison, and abstraction capabilities in these students we conducted the "Who Am I" Method at the beginning of the test. The level of development of students on these abilities in the processing of method results is as follows: in the assessment of students 'knowledge in Grade A, good results were obtained in this method, in the assessment of students' knowledge even in Grade b, high results were obtained in the assessment of students ' knowledge.

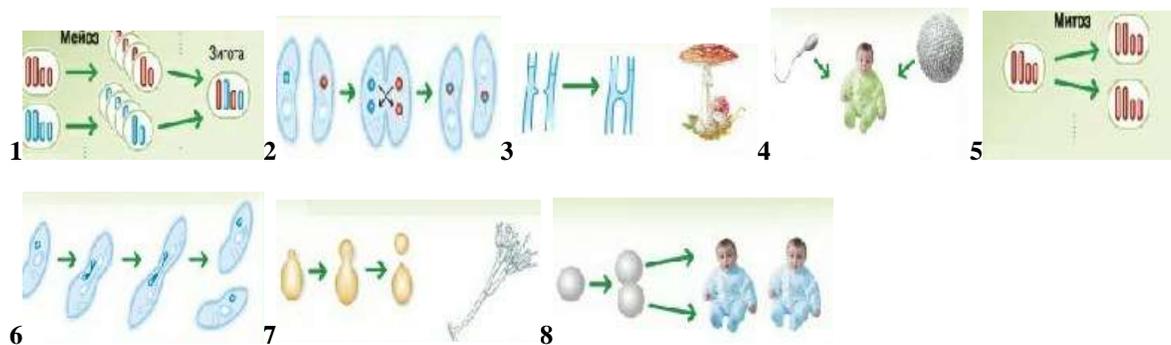
The level of development of students with respect to these abilities in the processing of the method results of the game " BinGo "is as follows: in the evaluation of students' knowledge in the 7a - th grade, good results were obtained in this method,

Even in Grade 7-b, high results were achieved in assessing the knowledge of students.

Picture test :



Pisa test assignments were conducted in the 10th and 11th classes: find the following types of asexual reproduction.



A-1,3,5,7 Б- 2,4,6,8 C- 1,2,3,4 Д- 5,6,7,8

What family plants are given in the picture:



Design technology. Presentations in this technology, namely "video puzzles", animations, audio and video footage, working with diagrams, examples and issues, conducting laboratory and practical work creates conditions for readers to enhance their future self-development, vital concepts. For example, it is possible to show multimedia on blood groups. As long as in ancient times lived a tsar. He's old and incredibly cruel. One day the King prayed to live and ordered the doctors to pour the blood of the maxbuses. When the first time poured blood, the Tsar felt a trigger, energetic. When the second time the blood was poured, the Tsar felt bad and died. Where children tell what is the reason for this? Answer: the reason is that the blood of one person does not correspond to the blood of the second person. A person has 4 different blood groups. The rhizomes of each blood group should coincide. When the Tsar first poured blood, the blood group of the prisoner with his blood group matched each other, when the second time the blood was poured, the blood groups did not fit, and therefore died).

Quiz: What kind of organism is in the picture and what kind of adaptation is it used

for?



Conclusion:

The use of modern pedagogical technologies in biology lessons is highly effective, allows to develop the interests and needs of students to master the basics of science. Modern educational technologies ensure the assimilation of instructional material by teachers and readers, textbooks, text, various didactic materials in the process of teaching biology. The creative ability of students creates conditions for self-development and formation in the future. The study of biology at an advanced level involves the use of visual anatomical models, paints, reagents, etc.

USED LITERATURE

1. A.T.Gafurov, J.Tolipova, S.S.Zire " Lost In Test MatchT.Azimov, B.Akhmadalieva "general methodology of teaching biology" (educational-methodical manual). Tashkent-2005
2. M.M. Abdullaeva "improvement of cooperation in the development of creative activity of children with disabilities in secondary schools". Chirchik. 2019
3. C.A.Tolipova. "The theory and practice of increasing the level of scientific and methodological training of a biology teacher". -Tashkent, Tashkent, 2006 y
- 4.C.G'.Yoldoshev., S.A.Usmonov. Pedagogical technology. Tashkent. Publishing house" teacher". 2004 y.
5. Mirzaeva, Nodira (2019) "THEORY AND PRACTICE OF ECOLOGICAL COMPETENCE IN STUDENTS," Central Asian Journal of Education: Vol. 3 , Article 3. Available at: <https://uzjournals.edu.uz/cjedu/vol3/iss1/3>

6. Мирзаева Нодира Абдухамидовна, СОВРЕМЕННЫЕ АСПЕКТЫ РАЗВИТИЯ ЭКОЛОГИЧЕСКОЙ КОМПЕТЕНТНОСТИ СТУДЕНТОВ ВУЗОВ , Архив конференций: Вып. 4 №4 (2020): РДССШЭС,

<https://conferencepublication.com/index.php/aoc/issue/view/4>

7. N.A Mirzayeva - Будущее науки-2017, elibrary.ru, axiological solution of problem of human and nature.

<https://cyberleninka.ru/article/n/relevance-and-pedagogical-basis-development-of-environmental-competence-in-students>

8. А. К. А. К. Рахматуллаева, & Ш. Мардонов (2021). Биология дарсларида ўқувчиларнинг биологик иқтидорини ривожлантиришнинг назарий асослари. Academic research in educational sciences, 2 (Special Issue 2), 68-74.