



## EDUCATIONAL EFFECTIVENESS IN TEACHING BIOLOGY WAYS TO INCREASE

**Raximova Dilnoza Hoshimjon daughter**

*Kosonsoy district, Namangan Region No. 45. Blind and weak-sighted children's boarding school.*

*Biology teacher.*

**Abstract:** *This article discusses ways to increase the effectiveness of teaching biology. The new conceptual pedagogical technology of knowledge acquisition in the current education system and ways to organize students' learning activities in order to increase the effectiveness of education in the teaching of biology are analyzed.*

**Keywords:** *biology, new conceptual pedagogical technology, technology, method, cognitive activity, modern education*

## BIOLOGIYANI O'QITISHDA TA'LIM SAMARADORLIGINI OSHIRISH USULLARI

**Annotatsiya:** *Ushbu maqolada biologiyani o'qitish samaradorligini oshirish yo'llari muhokama qilinadi. Hozirgi ta'lim tizimida bilimlarni egallashning yangi kontseptual pedagogik texnologiyasi va biologiyani o'qitishda ta'lim samaradorligini oshirish maqsadida talabalarning o'quv faoliyatini tashkil etish usullari tahlil qilingan.*

**Kalit so'zlar:** *biologiya, yangi kontseptual pedagogik texnologiya, texnologiya, metod, kognitiv faoliyat, zamonaviy ta'lim*

### Introduction

After the independence of Uzbekistan, the educational attainment increased even more. The modern educational system is now used, and modern education in biology is the organization of classes in an unconventional way, an important sign of which is the achievement of a clear, consequential goal. Non-traditional educational technology differs from traditional educational technology in that students develop cognitive opportunities creates conditions, special attention is paid to their independent work, cognitive activities acquire an inquisitive and creative character.

It is known from biology that our ancestors also conducted a number of studies on the improvement of education on the basis of pedagogical technologies. The great allomas of the East noted that qomusi scholars such as Moses al-Khwarazmi, Ahmad al-Fargouni, Abu Nasr Farabi, Abu Rayhon Beruniy, Mirzo Ulugobek attached great importance in their works to the use of various methods and means of teaching man in bringing him to mental perfection in schools and madrasas.

In the current educational system, a new conceptual technology of knowledge acquisition - the application of methods of non-traditional educational technologies-is being implemented. Non-traditional educational technology: is divided into collaborative learning, modeling, research(project) technologies and is carried out on



the basis of an integrated continuous system. The main concept of pedagogical technology, unconditionally, is the approach to the educational process as a system. The method of non-traditional education is the basis of collaborative activities with an educator and an educator on the implementation of an educational goal. Methods: ensure the achievement of the desired results that the learner must know, manage and appreciate. In this, everything and phenomena involved in education are functionally interconnected, forming a whole, that is, a set of pedagogical processes.

### LITERATURE ANALYSIS AND METHODS

Studying biology by analyzing ways to improve the effectiveness of education in teaching. Our biologists explained the organization of effective ways of the educational process as follows:

Ibn Sina attached great importance to the issue of teaching and raising the child in school, devoting a special section of the work "Masarat ul manozil" to this issue. The book's section, "teaching and raising a child at school", focuses on involving the child in school. It should be noted that children of all people should be involved in the school and all children should be taught and raised together. He was opposed to teaching the child alone at home, expressing the benefits of teaching the child with the team at school as follows:

1. If children study together, they do not get bored, they develop an interest in acquiring science, try not to stay apart, develop a desire to compete. All this contributes to the improvement of reading.
2. In a conversation, the children tell each other stories that they read from the book, what they heard from adults.
3. Children begin to respect each other when they gather together, become friends, help each other in mastering educational materials, learn good habits from each other.

In his works, Ibn Sina argues that the following principles should be followed when educating the student: not to be occupied with textbooks at once; to go from light to sore; to focus on teaching as a team; to take into account the inclinations, interests, abilities of children in knowledge, etc.

Burkhoniddin az-Zarnuzhiy wrote in the brochure "ways to educate and educate the learner" that as the main conditions for learning science and profession, the student should have a serious desire, mood, after which a good teacher and sufficient time are necessary. Japanese scientist T. It is acknowledged by Sakamoto that "teaching technology is the domain of knowledge associated with the guidance system that ensures the acceptability of teaching".

Russian scientist N.F.Talizina explains that technology "consists in identifying rational ways to achieve a set educational goal", recognizing pedagogical technology as a science.

K.K was also welcomed by Selevko: "pedagogical technology exists both as methods, principles and regulators used in education and as a real teaching process, as





a science that provides unambiguous rational ways of teaching". The scientist noted that the concept of " pedagogical technology " is used at a hierarchical level in educational practice.

### **DISCUSSION AND RESULTS**

In the educational process, the student, under the direct guidance of the teacher, with the help of educational content, methods, tools and forms, learns the laws of the organic world, the essence, peculiarities of phenomena and events and acquires knowledge, skills and qualifications.

When teaching biology, the following ways of organizing student cognitive activity are indicated in improving educational effectiveness:

#### **1. In the process of mastering knowledge, the cognitive activity of students is organized at the following stages:**

- \* initial acquaintance with educational material • \* study of educational materials;
- \* comparison of acquired knowledge with awal acquired knowledge;
- systematization and consolidation of knowledge;
- application of acquired knowledge in new cases.

#### **2. Organization of students ' cognitive activity on an independent work basis:**

- \* causing problem situations;
- \* determination of the purpose of training assignments;
- \* finding answers to questions through independent research;
- \* checking the correctness of answers based on theoretical knowledge and practical skills;
- systematization and consolidation of knowledge;
- knowledge, skills and qualifications apply in new situations.

#### **3. Organization of cognitive activity of students in order to form skills:**

- \* determination of the purpose, course of implementation of educational activities;
- \* drawing up a model of educational activities;
- sample execution;
- getting the job done by students;
- Learn to repeat activities and perform without errors.

#### **4. Organization of students ' cognitive activity in order to form moral qualities:**

- to find the recommended literature, according to the instruction or recommendation of the teacher;
- \* introduction to additional educational literature;
- \* analysis and evaluation of learned information;
- \* authorizing literature to identify and evaluate the contribution of a society to the spiritual and educational sphere or the development of science;



• general conclusion of students on the development of their own behavioral and moral qualities.

The following should be considered in improving the effectiveness of the process of teaching biology:

- The choice of means, methods and forms to achieve the purpose of the teaching process, in accordance with its content. Their harmony with the motive, need, interest of their students.

- The design of the teaching process, the selection of teaching content and means of achieving the goal, the delivery of educational material using various methods and the achievement of conscious assimilation.

- To carry out educational operations of learners, to effectively organize educational work of teachers and learners.

- Organization of feedback in the process of training, implementation of appropriate changes and self-control in the process of control and assimilation of educational material.

- Analysis and self-analysis, assessment of the result of training.

- Organization of the lesson in harmony with other forms of teaching (lesson, classroom, extracurricular activities, excursions).

In addition, an important role in improving efficiency is played by the activities of the teacher, who is the organizer, administrator of the teaching process.

The activities of the teacher are considered to be the organization and management of their educational and cognitive activities in accordance with the educational content in order to harmoniously develop the mental, moral, mental, physical abilities of the younger generation. It consists of:

■ Selection of training material, systematization, design in a logical sequence;

■ Acceptance, awareness and awareness of educational material of learners

■ Organization of educational and cognitive activities in accordance with the teaching goals of each student in a holistic way of the pedagogical process, achieving their acquisition of the system of knowledge and methods of mastering knowledge;

■ Planning the activities of himself and his students in the continuation of training;

■ Determination of methods of organization and promotion of conscious and active activities aimed at acquiring methods of mastering knowledge and skills;

■ Determination of ways to achieve the quality of the performance of educational tasks by learners;

■ Control, analysis of the results of training and determination of measures to be carried out in the future for the development of the personality of learners;

■ Making appropriate changes to the organization and management of this process in accordance with the result of the training process;

The task of managing the educational process of the teacher is not limited to making only relevant changes to the teaching process, but also provides for the





formation of moral qualities, spiritual upliftment in the person of learners who are the subject of this process. To manage such activities, it is necessary that the teacher first of all design the types of activities, external and internal factors affecting IT, goals and objectives in the perspective, assume the results obtained.

### **Conclusion**

In place of the conclusion, it is worth noting that the role of a teacher and a student, that is, an educator, in improving the effectiveness of education in teaching biology is birdek. Traditional education, which continues to dominate the modern educational process, provides for gross education of the student and the organization of educational cognitive activity as a passive listener. When organizing teaching work, a medium-sized student is meant, student independence is ignored, educational activities are guided by the teacher.

### **REFERENCES:**

1. Ochilov M. New pedagogical technologies. - Against: Nasaf, 2000.
2. Sayidakhmedov N. New pedagogical technologies. - Tashkent: Finance, 2003.
3. Tolipova J.O., Gofurov A.T. Biology education technologies. - T.: Teacher, 2002.
4. Tolipova J.O., Gofurov A.T. Methodology of teaching biology. Pedagogy is a textbook for students of higher educational institutions. - T., Finance and economics, 2007.
5. Tolipova J.O., Gofurov A.T. Methodology of teaching biology. Tutorial-methodical guide. - T.: "Knowledge" 2004.
6. Azimov et al. Biology. Methodical guide. - T., A medical publishing house named after Abu Ali ibn Sino. 2002.