

## THE EFFECTIVENESS OF IMPROVING THE PROFESSIONAL TRAINING OF STUDENTS IN THE FIELD OF BIOLOGICAL EDUCATION

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**ABSTRACT:** The article considers the problems and ways to solve them in improving the professional training of students in the field of biological education and also considers the stages of improving the methodology of organizing modern biology lessons and the use of pedagogical technologies in the field of biological education, its structure and content, introduction into educational practice, the formation of skills and abilities. It provides information on how future biology teachers will organize their lessons, and how well they have developed the skills and competencies to design lesson plans.

**KEYWORDS:** Lesson plans, organizational-managerial, explanatory-motivational, cognitive, technological, creative, white swallow, midwife dolphins, canaries, pomegranates, mosses, jellyfish.

### INTRODUCTION

The content of the development of the higher education system in our country and the reforms that are being carried out in terms of improving the quality and efficiency of the teaching technology increase the possibility of using pedagogical approaches aimed at humanizing education and building professional competence in future teachers.

On August 12 of this year, the presidential decree "On measures to increase the quality of continuous education and the effectiveness of science in the fields of chemistry and biology" was signed. In this decision, the development of chemical and biological sciences in our country, and the improvement of the quality of education and the effectiveness of science in these areas are defined as a priority task.

Also, to fundamentally improve the quality of education in chemistry and biology, to introduce a completely new system of teaching these subjects in secondary schools, to provide educational institutions with modern laboratories, textbooks and other educational equipment, attracting qualified teachers-coaches to these directions, training personnel and establishing close communication and cooperation between the fields of education, science and production in the use of scientific results focused.

In order to ensure the implementation of this decision, the issue of training competitive personnel who will bring the biology science up to the modern requirements in general education schools is the most urgent task before us.

Today, in order to be a competitive staff, a biology teacher needs to have a perfect knowledge of his specialty, modern information technologies, and a foreign language. Biology is a vital science related to nature and human life. Therefore, students It is not a problem for biology teachers to make them interested in biology and to introduce them to nature. For this reason, it was possible to explain all natural phenomena, life processes, daily life processes and biological changes in the language of science. In this way, the student's worldview and interest in biology significantly increase. We will give examples of some of the interpretations carried out in our experience.

Before starting the biology lesson, it is important to determine the mentality of the students. For this, it is better to start with life riddles or instructive stories that will reach the reader's mind. You can't always do it. To prepare for this in advance, we suggest that you prepare your lesson project in advance and enrich it with all the interesting information and life experiences.

Interesting life riddles related to the science of biology:

- 1) He is overflowing in a golden cup, opening the fields. Tell me what is this? (cotton)
- 2) Scarlet huge, inflammable like embers, smokes from the chimney, takes place in the basket. Are you interested in these characters? Guess what plant this is? (strawberry)
- 3) Tell me what is this? (cotton)
- 4) He can't look at the blue, he can't see the blue. Tell me what is this? (sunflower)
- 5) I saw a crawling stone, I saw a head that came out of the stone. Tell me, which animal is this? (turtle)
- 6) Coal stone, soup inside Tell me, what is it? (almonds)

"Numbers speak in biology"

- The length of acetabular algae can reach about 6 cm.
- About 100,000 chemical reactions occur in the human brain.
- The tallest grass is bamboo, which reaches a height of about 30 meters.
- There are only 20 vital items.
- Owls were studied by Carl Behr.
- Humans have about 90 rudiments.
- Insulin contains 51 amino acid residues.
- About 70% of all living things are bacteria.

Interesting information about biology will be interesting not only for schoolchildren. Many adults are not even aware of many facts. They don't talk about it in class. All important information in biology is classified and not everyone knows about it. The use of "Biological facts" also has a good result in increasing students' passion and interest in science:

- Many plants are capable of thermoregulation. For example, these plants include: philodendron, watercress and water lilies.

- Interesting facts about biology did not hide the fact that the hippo was born under water.
- A cat's nervous state is betrayed by its ears. Even when the cat is sitting still, the ears can be pinched.
- Even though it has a camel's hump, its spine is straight.
- Crocodiles never stick out their tongues.
- The ant is the animal with the largest brain relative to its body size.
- Shark is the only animal that blinks with both eyes at once.
- Tigers not only have furry fur but also skin.
- Human tongue is considered to be the strongest muscle.
- The first place in the beauty of flowers is sakura.
- Looks very much like a DNA shaped ladder.
- Artificial yeast genome was created by American scientists.
- American neuroscientists have learned that caffeine protects the human brain from destruction.
- In terms of hardness, human tooth enamel is compared to quartz. [7]

In the modern educational experience, there is a fixed standard time for one lesson. This time is 45, 40, 35 and 30 min. In the educational system, the relationship between class and homework is very important. At various stages of the modern education system, whether homework is given to students or not, aspects such as its amount are reflected in the regulations of educational institutions. [2, 123-125 P]

In the lesson projects that we offer to future biology teachers, a technological map of the lesson is presented, what kind of knowledge, interesting information, what non-traditional innovative educational methods, effective use of interactive games, different topics are included in it for a one-hour lesson. is a booklet enriched with pictures and caricatures. The student learns about the knowledge, skills, qualifications and competences he will have from the lesson project and is eager to start the lesson.

With the help of a lesson plan created for each lesson, future biology teachers will make the lessons interesting, meaningful, relevant to life, and using stories and hadiths will give effective results in the development of a culture of communication with people.

Also, the future biology teacher will be prepared in advance for each lesson, will have the opportunity to work independently, will be able to properly organize the lessons. the effectiveness of the quality of education increases.

Everyone's learning style is different, some learn better by listening, others learn better by seeing, and a third group learns better by both hearing and seeing.

So, if the educational process is organized using the interesting information, life riddles, and biological facts presented in the design of the lessons recommended above, students' deep mastery of biological sciences will increase the quality and effectiveness of education.

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