



# INCREASING STUDENTS' COGNITIVE ACTIVITIES IN BIOLOGY CLASSES BY INTRODUCING THEM TO ENTREPRENEURIAL ACTIVITIES

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<b>Received:</b> March 21 <sup>st</sup> 2023 <b>Accepted:</b> April 30 <sup>th</sup> 2023 <b>Published:</b> May 28 <sup>th</sup> 2023	Information aimed at improving the elements of entrepreneurship in students' biology lessons is reflected in this article. The article involves the methodological foundations of entrepreneurship and the educational and upbringing importance of developing students' cognitive activity. Also, for students, information is given about business projects that reflect entrepreneurial elements, as well as measures for maintaining an insectary and its organisms, and using them in business activities.

**Keywords:** cognitive activity, young entrepreneur, national education, insectary, butterfly garden, entrepreneurial quality and ability, education, economic competence, project, career guidance.

The real human qualities that have been tested in the national education system are reflected in the basis of raising the young generation to be mature in all aspects - honesty, truthfulness, mutual respect, hard work, mastering a profession, valuing work, being responsible, initiative, and learning a trade, earning money by honest work is a priority. Formation of such qualities in our students is considered one of the most urgent tasks in modern schools. Therefore, this task is considered at the level of state policy.

The results of the analysis were focused on the promotion of the development of youth entrepreneurship by the state bodies, to support the organization of entrepreneurship among young people, and to involve young people widely in this activity. Organizational and legal bases for teaching young people the basics of entrepreneurship, development of contractual cooperation between educational institutions and employers have been solidly developed. However, it has been shown that the pedagogical and psychological mechanisms and didactic support of entrepreneurship education do not fully meet modern conditions.

Development of entrepreneurial skills in students is one of the main components of economic competence. That is why the development of entrepreneurship in students should be considered as a structural basis of the educational process.

In order to clarify the description of entrepreneurship skills that should be developed in biology classes, it is necessary to clarify the concept of "entrepreneurship", the place of entrepreneurship in modern society in connection with entrepreneurial qualities and abilities.

In school education, the main focus is on attracting students to small production enterprises. By bringing students into the world of business, these small production enterprises ensure the development of practical skills and personal qualities, initiative and creativity. It gives them confidence that they have the possibility of independent self-employment and helps guide them to the profession. Students have a high chance of developing entrepreneurial skills in biology classes. Because the students understand the economic importance of plants, animals, and fungi, which are the objects of basic biology, along with their scientific study. It is easier to organize business activities on these objects. Because most of the students were involved in family business and participated in farming of plants and animals.

Therefore, the main task facing the family and the school at the moment should be not only education, but also the formation of the student's personality, orientation to the target profession and preparation for life activities. School curricula and forms of their implementation do not have an academic description, requiring that the content of education be more related to real life. For this, a special approach to family and school cooperation is required. Therefore, it is of particular importance to teach students in developed countries to entrepreneurship, to analyze their experiences aimed at forming entrepreneurial qualities in them, and to introduce them into the national education system.

Providing information on various project work and business plan formation in biology classes, especially in the teaching of invertebrates course topics of zoology, allows students to develop entrepreneurial skills. For example, we recommend a project called "Butterfly Garden" to teach students about the butterfly species. Of course, this project

corresponds to the knowledge level and age characteristics of the students. This project can certainly interest not only students, but also adults.

Any proposed project is unique and unique in terms of value and direction. Of course, for the implementation of any business plan and project, there is a question of space and funds. To create a butterfly garden, a separate place, greenhouse, shopping center or office space is required. The implementation of this project requires a lot of attention, that is, it is necessary to prepare a special estimate for the design of the place. But students can create this project at home in the living nature corner of high schools in cooperation with the biology teacher.

In order to create a butterfly garden, it is necessary to create favorable conditions for the care of butterflies, and at the same time, to create all the conditions for visitors and visitors to the garden. To organize an exhibition on the butterfly garden, only one-time expenses are not enough, to ensure its continuity, butterfly mushrooms, various plants and necessary equipment are constantly purchased. Various events are held at the base of the Butterfly Garden, such as extracurricular activities, weddings, photo shoots, and student-organized events. At the same time, the business is engaged in the sale of various souvenirs, that is, butterflies placed under the window, even live butterflies to be used as salutes at various holidays and weddings.

Butterfly fireworks attract anyone's attention and give aesthetic pleasure. This project should not only be a beautiful place for people to relax, but also for nature lovers, as well as a center for students to develop learning activities. In addition to being very interesting and beautiful for guests and visitors, the activities organized in the Butterfly Garden are not only able to watch the butterflies fly, but they can also hold the butterflies in their hands, take pictures, and get a lot of interesting information about the development cycle of insects.

The most convenient option for breeding butterflies is to buy their domes. Nowadays, there are many websites that offer to sell and deliver butterfly mushrooms. Orders up to \$100 are accepted at most locations. This amount of money can buy 20 butterfly bulbs. They are delivered in specially equipped containers.

Before placing an order for a butterfly mushroom, it is necessary to prepare a habitat for it. Such a place is called an insectary in science. It should be equipped with heating and humidification devices. The temperature should not be lower than +25°C, and the humidity should be around 70%. The house should be comfortable for butterflies to live in, the height of the insectary to keep 10 butterflies should be at least 1 meter, and the width should not be higher than half a meter. External walls should be made of glass as much as possible, or transparent plastic products can also be used. The remaining parts of the wall can be made of plywood or aluminum products from other products. In the insectarium, special devices are placed for the landing of butterflies with a distance of 20 cm from each other. Branches should be placed in the corner of the insectarium, on these branches newly emerged butterflies will land and dry their wings.

The company guarantees only 80% of the mushrooms purchased from the company. A favorable environment for butterflies is created only when they can reproduce.

Butterflies can feed on plant nectar, sweet fruits, and sugar solutions. If the butterflies begin to multiply, it will be necessary to reserve the green plants necessary for their larvae.

Butterflies as a business idea. Live butterflies can be used as holiday fireworks for children and adults, and as gifts to loved ones by placing one or more in envelopes. The price of butterflies is in different ranges. In European countries, the price of one beautiful butterfly can be estimated from 20 dollars. If the butterflies are properly and well cared for, they live up to three weeks on average.

A butterfly can still be useful even after it dies. A dead butterfly can be sold by drying it properly and placing it under a beautiful framed mirror. Those interested can buy a butterfly in such a frame for \$10. Also, if one learns the techniques of making beautiful panels from dried butterfly wings, such panels are extremely expensive.

It is not difficult to breed exotic butterflies at home, and you can see great benefits from it. A beautifully decorated insectary provides aesthetic pleasure for the owners and guests of the apartment. Breeding butterflies on a large scale allows for the organization of exhibitions and is very good advertising, which allows you to get a large amount of money.

Therefore, on the basis of such business projects, children are introduced to economic knowledge in a goal-oriented way during the course of "natural sciences" education. General concepts of modern production and basic professions are given. The process, program and location of the internship are agreed with the parents, and the students receive a monetary reward that contributes to the family income. Companies and enterprises directly interested in training high-quality specialists take an active part in such projects. This, along with the development of cognitive activity of students, also develops entrepreneurial skills.

Of course, the organic implementation of lessons that include such entrepreneurship will increase the desire of students to participate more in biology lessons.

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