



## Using Innovative Methods In Club Work

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### ABSTRACT

The modern education system requires flexibility in training in order to take into account the specific production requirements for university graduates, as well as for continuing education. The flexibility of educational programs is realized by the introduction of special courses, including extracurricular activities. Extracurricular activities are designed to broaden their horizons and foster students' creative initiative. One of the main types of extracurricular work is a circle in the specialty and areas of science.

### Keywords:

A circle is a form of systematic extracurricular work. In it, students receive a range of additional information, deepen and consolidate existing knowledge and skills, and learn to apply them in practice.

Club work, like other types of extracurricular work, requires great creative initiative and practical training from the teacher. Successfully completed work involves joint active research work with teachers. A necessary condition is the presence and development of professional qualities of teachers, among which it should be noted the ability to implement their pedagogical projects, plan and organize educational creative activities of students, its methodological and material support.

Club work in chemistry includes the study of the scientific basis of phenomena and problem solving. The effectiveness of work depends on the internal mechanisms of the individual and its practical implementation. The organization and conduct of work in a chemistry circle should have the following sequence.

At the first stage, a group of willing students is selected to determine their creative potential. We conducted research on students' ability to be creative using a method (testing)

to determine unrealized creative potential; 6-8 students make up one small group.

At the second stage, students are offered solutions to problems from different branches of chemistry that make up one block. Each group chooses a block that they would like to solve. The block consists of 6 problems (2 to determine the theoretical basis, 2 to determine the physical quantity and 2 qualitative problems). For example, the thought experiment "Structure and properties of organic compounds" can be used to assess creative imagination.

At the third stage, taking into account the results of the above stages, a single problem of the circle and objects of research for each group are determined, and a work plan for the small group is drawn up. At this stage, it is advisable to use the Japanese brainstorming method and include all participants in creating a cluster.

At the fourth stage, the actual creative work is carried out. Studying scientific, scientific and methodological literature using the "Insert" method. By using brainwriting with the "what if..." technique, you can look at things from

different perspectives. As a result of the work, a reasoned chemical essay is compiled.

At the fifth stage, the work of the groups is protected with the possible use of the video method. The methodology of critical thinking is implemented (critical discussion groups, questions to the author, etc.).

In contrast, a pedagogy club involves an analysis of the laws of education and the forms of its implementation in life. In addition, problems in chemistry, as in all exact sciences, have a certain only correct answer, when problems have many answers, from which it is necessary to choose the optimal one.

Based on our research, the following were established:

1. The organization of circle work must necessarily include a selection stage, which determines the creative potential of students, and not just academic success.
2. It is advisable to use a block system for researching thinking styles based on tasks in subjects to select group members.
3. The use of critical thinking methods in circle work provides greater opportunities for the development of students' creative thinking.
4. The organization of creative activities in circles according to areas leads, on the one hand, to the development of students' creative abilities, and on the other, has a positive feedback effect on the education system and internal integration.

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