

## EUROPEAN INTERNATIONAL JOURNAL OF PEDAGOGICS

VOLUME04 ISSUE01

DOI: <https://doi.org/10.55640/eijp-04-01-18>

Pages:80-84



## THE USE OF MODERN TECHNOLOGIES AND METHODS IN THE DEVELOPMENT OF STUDENTS' CREATIVITY, THAT IS, CREATIVE SKILLS

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### ABOUT ARTICLE

**Key words:** Creative thinking, brainstorming, digital technology, flexibility, higher education system, creative thinking, SMART technology, originality, curiosity, creative development technologies.

**Received:** 21.01.2024

**Accepted:** 26.01.2024

**Published:** 31.01.2024

**Abstract:** This article describes the approximate parts of the development of the student's creativity, i.e. creative abilities, fluency of thinking, flexibility of thinking, technologies for the development of creative thinking, using modern methods, based on SMART technology, examples of creativity development in circles, technologies of creativity development is explained.

### INTRODUCTION

This article discusses approximate parts of the development of students' creative abilities, that is, creative abilities, fluency of thinking, flexibility of thinking, technologies for the development of creative thinking, which are enhanced with the help of modern methods based on SMART technology. Creativity in the activities of circles, technologies for the development of creative abilities are highlighted with examples.

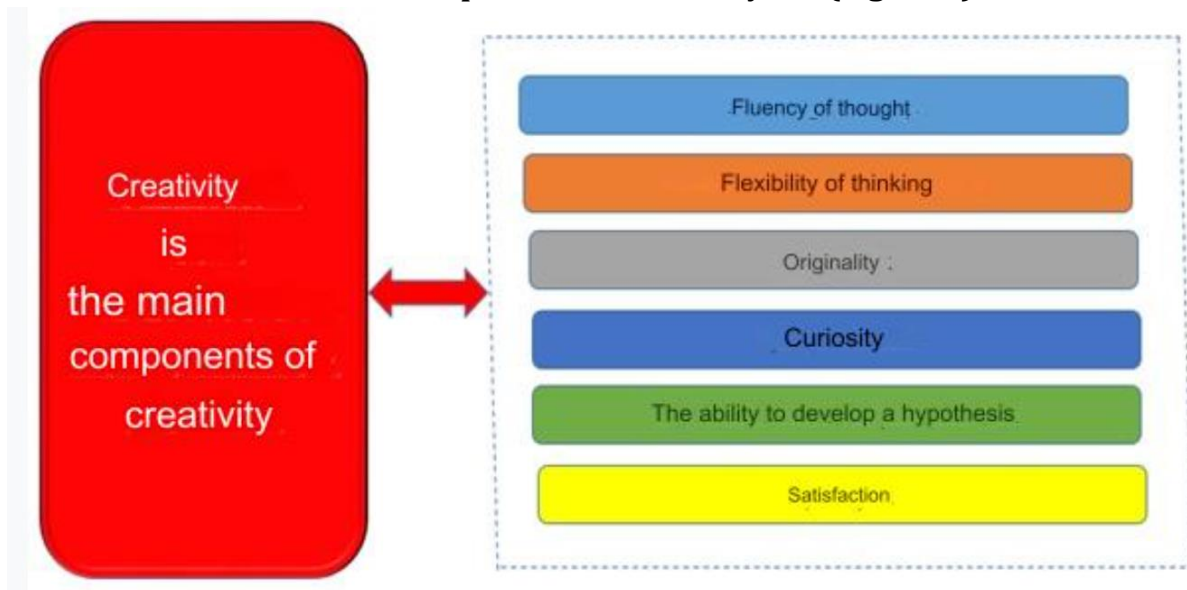
The system of continuous education formed in the Republic of Uzbekistan serves to ensure the effective organization of the process of training competent individuals and qualified specialists. In this regard, the school-higher education system has an important place in the continuous education system as it aims to educate mature and creative young people.

In the "2022-2026 national program for the development of public education" there are special requirements and tasks related to the development of individual creativity in schools, lyceums, and Oily educational institutions of the continuous education system. In the normative documents on the field of education adopted in our republic, the main goal is to achieve the development of creative activities of students [1].

What is creativity or creativity? The simplest definition of this concept is as follows: creativity is the process of creating a new product of material or ideal nature. Creativity is called and believed to be special creativity. Pedagogical, psychological, philosophical and methodological literature is full of the terms "creativity", i.e. "creativity", "creative thinking". Creativity is characterized by a person's creative

abilities, willingness to create radically new ideas that deviate from the traditional or accepted way of thinking and are part of talent as an independent factor [2].

**The main components of creativity are (Figure 1).**



**Figure 1. The main components of creativity.**

Educators use various game methods to develop creative thinking in teenagers. [4]

The method of creative thinking in technology classes is the method of searching for alternatives and analogies. Characterized by independent thinking with different tasks and solutions. Born in the head does not require specific work on each option. Thus, it allows you to find a solution using all the experiences you have accumulated throughout your life.

- "Mental attack".

This popular method was created in the 30s of the XX century. Its peculiarity lies in the prohibition of criticism, that is, it is separated from the generation of ideas. For example, the group consists of 10 participants, and within 40 minutes they will have to express their opinion on the given topic. All kinds of fantasies are allowed: from games to fantasies and mistakes. At a certain point, excitement begins, when participants involuntarily form ideas, and the brain begins to put forward the most incredible hypotheses. The conclusion of the brainstorming session involves a detailed analysis and evaluation of the options proposed by the participants. [3] The main advantage of this method is the non-standard thinking experience acquired by each participant.

For example, the task: you need to quickly cool a glass of boiling water. How to be? A solution is required. Clarify: - What is in the problem statement? A glass, boiling water, you, the kitchen and everything in the kitchen is the source to solve the problem. We use the technique: mediator + physical effect (transfer of heat from cold to body).

Possible student answers:

1. Add cold water, tea leaves or milk.
2. Pour into a plate, a large bowl.
3. Pour several times from the glass, holding them at a great distance from each other.
4. Add lots of jam or sugar.
5. Pour off the excess.
6. Dip cold spoons and mix.
7. Place in the refrigerator, cold water container, ... etc.

A great creative thinking technique that can be used to make decisions in the head, write down new information, or organize thoughts.

How to work with SMART maps:

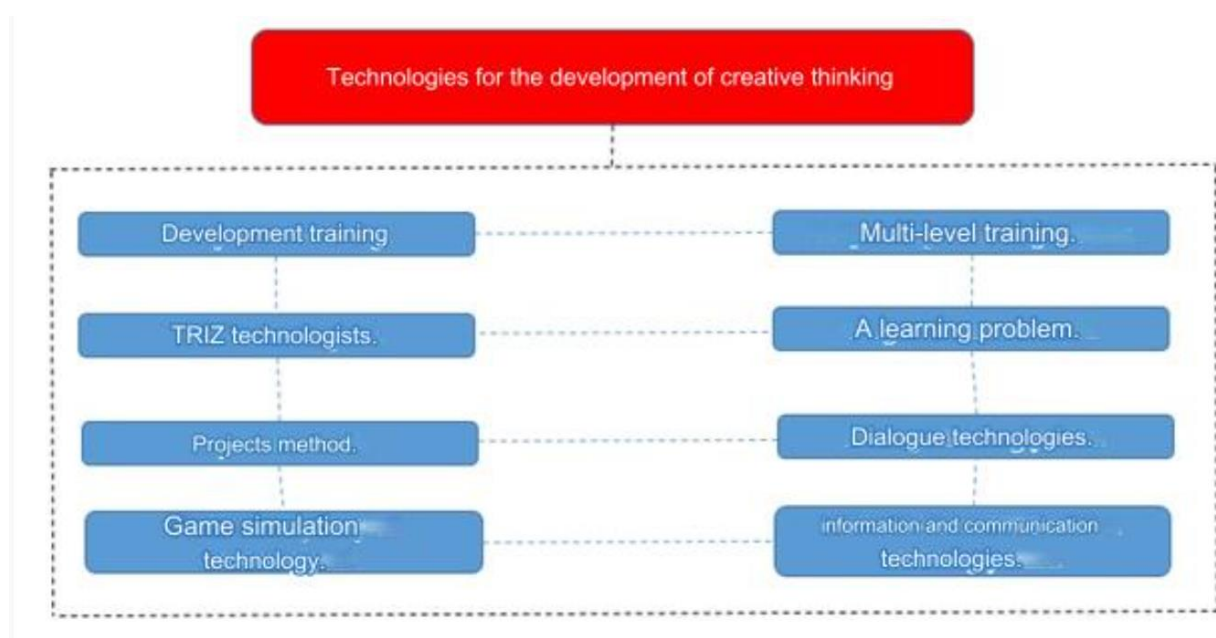
- the sheet should be large (A4 - minimum);
- it is necessary to draw a picture of the problem or situation that appeared in the center;
- signed branches (the main keywords of the problem) are drawn from the center, from which smaller "branches" come out; [5]

block letters, different colored markers, etc. should be used.

The technique helps to create a connection diagram, remember the important points of the problem and restore the visual image of the problem.

The main thing is to learn to ignore stereotypical thinking, to believe in yourself and to believe in the power of your own thoughts!

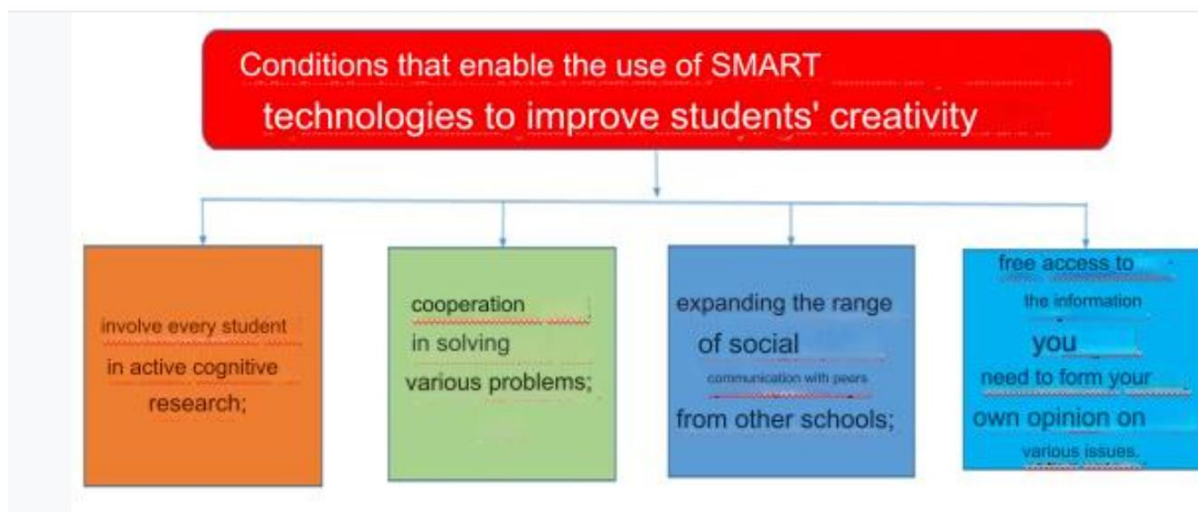
Technologies for the development of creative thinking: (Figure 2)



**Figure 2. Technologies for the development of creative thinking.**

Therefore, the following conditions must be met for the development of creative thinking:

- preservation of traditionalism in teaching method, everyday life, monotony, separation from student's personal experience;
- prevention of overwork and educational overload;
- stimulation of cognitive interest in various ways using digital technologies; - Special teaching of techniques of SMART activity and educational work, use of problem-search methods of teaching.



**Figure 3. Conditions that enable the use of SMART technologies to improve students' creativity.**

Creative activity develops the student's personality, helps to master national and moral standards. Creating creativity, the student reflects his understanding of life values and personal characteristics in them. Adults are often critical of their creative abilities and hesitate to show them. And according to V.A.Sukhomlinsky, one of the scientists, "People should live in the world of beauty, games, fairy tales, music, painting, fantasy, creativity." In conclusion, everyone has creativity. Our task as pedagogues in the age of digital technologies is to awaken this inner creativity and show the right path.

The development of the student's creativity is a continuous process consisting of successively replacing one another, and the quality of this process depends on certain pedagogical and psychological conditions. In this process, characteristic changes occur in the mental and spiritual development of schoolboys and girls, and the conscious attitude to work and learning increases. A characteristic feature of mental and biological development is that a teenager develops independently, but this development includes many contradictions. Since this development takes place in the educational process, properly organized educational activities affect the balance of the student's psyche and create a basis for his distraction from various thoughts. Attention, memory, thinking processes develop especially during this period. In this period, the student tries to think independently. That is why the independence provided in education and properly organized study and learning conditions create an environment of sincerity, independent thinking and creative activity based on the student himself, and develop creative thinking in him. Possible.

The implementation of this process outside the school and classroom, i.e., in circles, has been very effective. Because the main task of the circles is to give the teacher the opportunity to work independently with the student, giving freedom to his creativity. In circle classes, ample conditions are created for the student to think freely and create freely. In contrast to educational classes, the student is given the option of free will and strives to master those classes independently. Naturally, the interest of the student increases even more in his hobby. As a result, it tends to innovate. In addition to the teacher, the student is able to seek and assimilate the necessary information, guidance and experiences from other sources. Examples of these sources are the experience of experienced teachers, previous work, information from the Internet, and similar independent research. This opens up an opportunity to apply the received information in practice. In the circle exercises, the student independently applies all the information and experiences he has learned in practice. It is also possible to reach unachieved stages by learning from the experiences of teachers and students who have more experience than

themselves. Therefore, we can say that circle training is the most effective tool as a supplement to the educational system in the classroom. Despite the wide range of interests of each student, he is capable of certain activities. We can see this ability more in the fields that the student wants and is interested in. Therefore, it is possible to achieve the full development of creative qualities of students only in circles with interest and ability. In the process of creation, it is necessary to compare the correct and incorrect ideas of the student until the student sees their inaccuracy. The student will be able to create and innovate only when he/she reaches the level of self-awareness of his/her mistakes and shortcomings. By combining and perfecting each of the elements he has mastered, he first creates something new for himself, that is, something new for himself. Although the created product does not make a big impression on others, it is a great achievement for the child, it gives a valuable and creative spirit. After this news, the student succeeds in creating local news, that is, he creates news among his friends, peers, community, and family. We can observe the result of this action of the student in the process of continuing the profession he acquired when he grew up.

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