



**ACADEMICIA**  
**An International  
Multidisciplinary  
Research Journal**  
(Double Blind Refereed & Peer Reviewed Journal)



DOI: **10.5958/2249-7137.2021.00843.0**

## **OPPORTUNITIES FOR THE DEVELOPMENT OF CREATIVITY SKILLS OF STUDENTS IN THE PROCESS OF TEACHING DRAWING SCIENCE**

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### **ABSTRACT**

*This article covers the ways of developing spatial imagination, thinking and creative abilities of students in the process of teaching drawing Science in general secondary education. Examples of the development of the student's creative abilities through the issues that require creative research are presented.*

**KEYWORDS:** *Creativity, Creative Ability, Innovation, Drawing, Reading Of Drawing, Spatial Imagination, Contemplation.*

### **INTRODUCTION**

Great scientist and inventor in the process of education and upbringing of the younger generation. E Kant said, "It is not necessary to teach thoughts, but to teach thinking"<sup>1</sup>.

As we all know, the process of introducing students to the basics of graphic education and its acquisition is carried out through the content of the school drawing course. The content of the school drawing course: reflects a number of processes, such as the development of technical thinking, spatial imagination of students, the activation of creative and cognitive activities, deep acquisition of general and polytechnic knowledge, visual perception of nature and techniques, as well as careful study of processes and phenomena that cannot be seen by eye.

The role of the science of drawing in the formation of technical knowledge in the younger generation, their technical and graphic literacy, the ability to “linger” with various technical means, is great.<sup>2</sup>

It is known to all of us. “..one of the main tasks of the science of drawing is the formation and development of knowledge, skills and qualifications for drawing up a drawing of a piece and its reading in students. To perform such a task, it is necessary to bring the spatial imagination and thinking of the students to the course process of development focused materials.<sup>3</sup> As a result of solving such issues, the creative ability of students is checked and, depending on their “strength”, abilities are developed.

One of the tasks of education is to allow everyone to demonstrate their talents and creativity, which means for each person the opportunity to make their own personal plans. Each child has his own abilities.

To date, it is necessary to successfully achieve this in the process of developing the spatial imagination and thinking of students, graphic literacy, creative abilities, in particular in the teaching of drawing science. The science of drawing shows that such an opportunity has its own advantage over other sciences. This issue is always a matter of days and a number of scientific research works are being carried out.

## **METHODS**

Expressing confidence in the youth of our country in vain, President Sh.M. Mirziyoyev also said in his speech: “Of course, only you, who have modern knowledge and professions, think independently, always live with a sense of belonging to the people, You, dear youth, will be able to stand on the field and solve the tasks set before us by life today”.<sup>4</sup>

## **MAIN PART**

It is known that scientific technical development in many ways is based on technical design. The technique of drawing can not be done without drawings. To do this, it is necessary to integrate elements of a creative approach in the drawingilikni in the learning process and in the execution of each graphic work. Bunda develops the creative ability of the pupil. Graphic issues that require creative research for the formation and development of creative abilities should be integrated into the content of the science of drawing. It is also important to analyze, understand psychological terms, such as creativity, creativity, ability, resourcefulness, which occupy an important place in cognitive activity.

Creativity is derived from the Arabic word, which gives the meaning of creation, discovery, being. Creativity-gives meaning to the creator, the creator, the creator.<sup>5</sup>

When called creativity, it is understood to create the necessary and useful innovation at a certain time and situation. In general, what is created except for a certain thing can be called the product of creativity. In turn, when it is called innovation, it is understood that the product of technical thinking, which was not in such a form before, but at the same time entered a certain element of course not previously known in the form of the finished, although there are certain materials in the composition.

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Ability-derived from the Arabic word, declination means interest, inclination, loyalty, support, dignity, ability, talent, talent.

A capable person is capable of something, capable of something, worthy of something, worthy of something.<sup>6</sup>

Creativity is a conscious, purposeful activity of a person aimed at knowing and changing existence, as a result of which new, specific, previously non-existing material and spiritual blessings are created.<sup>7</sup>

Any creativity is not a rejection of existence, but a full penetration into existence. An individual approach to training is an important requirement of the educational process. An individual approach to training should be carried out not only in the work of exercises, but also at all stages of the training process: in the transition, strengthening and repetition of the new material, giving homework and in addition to the lesson, it is also necessary. This opens another door to the growth of creativity skills and abilities of students.

Psychologists have different views on the nature of talent and the concept of creativity in relation to the intellectual development of students. From didactics it is known that there are two levels of ability: reproductive and productive (creative).

As a result of the analysis of Psycho-pedagogical literature, it was possible to identify the following main indicators of the formation of creative abilities of students:

1 – ascertain fund of knowledge and skills, the level of their quality and generalization.

2 - development of students ' creative ability the level of development of minds based on: attention, memory, imagination.

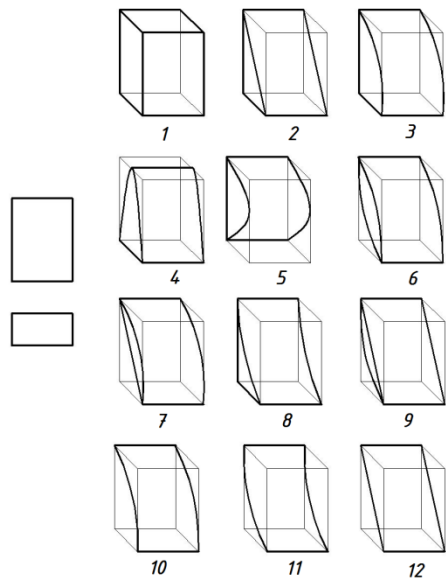
These qualities were the basis of effective thinking.

3-the development of the level of thinking of the student is determined mainly by the level of intelligence action and the complexity of operations capable of producing in the process of educational activities.

4-knowledge of methods of search and creative activity.<sup>8</sup>

The algorithmic map of the development of creative abilities of students in the field of Technology Science reveals the possibility of its implementation through 4 stages.<sup>9</sup>

Developing students ' creative ability in the careful study of educational literature, one can find interesting tasks in almost all subjects of the drawing science program. From Russian scientists in this regard I.A.Roytman's "Technology and design elements in machine drawing", V.A.Gerver's "creativity in drawing lessons", N.A.Sevastopol "Project tasks", N.Y.Bakhnov "extracurricular work on technical drawing", V.Rassokhin and N.Tselinsky "interesting tasks on projection



drawing", S.V.Titov said that "interesting tasks on drawing" and from local scientists. I. Rahmonov and A. Valiyev "Drawing" (construction of the basics in drawing)", It is possible to bring the books of N.X.Gulomova "Drawing (designing)" and other authors.

## RESULTS

One of the sources of improvement in the educational process is a new approach to the use of existing techniques and tools, which requires a certain correction and improvement from the point of view of development. School practice shows that 90 percent of traditional school education is dominated by a teacher's monologue teaching. Schoolchildren are waiting for new forms of acquaintance with new materials, their activities, the active nature of

thinking, their aspirations for independence. And a great way to solve this problem is cognitive problems, children's developmental abilities, interests and tasks that are ready to solve them.

In order to develop the interest of the spatial imagination of students, it is necessary to use a wide range of tasks that require entertaining and creative research. Especially effective is the use of functions to find the third projection. In the case of the reader, it is difficult to imagine the third projection. To do this, you will need the skill of reading the drawing. For example, on the basis of the two projections given in the 1-th drawing, the image of the geometrical form and the design of its third projection are divided into sections with the following result when asked.

- many students in the classroom express the graphic issue with a single solution;
- 20 percent of readers will be able to see 2 and 4 solutions;
- one or two readers will be able to design solutions in many variants.

Everyone knows that in any activity person needs knowledge, invention, ability, that is, intelligence and creative ability. Drawing one of the main and most difficult tasks of teaching is the development of the spatial imagination, thinking and creative abilities of the student, in which you cannot develop the abilities to perform various mental operations. Knowledge and knowledge, the mind can develop through systematic exercises. An important task of each drawing teacher for the development of the minds of the students is to develop the imagination of the students, which leads to the creation of new images mentally based on past perceptions expressed in previous concepts.

1. Preparation of students for innovative activities for the development of creative activity.
2. Establish collaborative activities between teachers and students.
3. The use of innovative cognitive technologies in the development of creative activity.

Graphic images are the link that connects many types of creativity activities. Therefore, in the drawing course there are very large potential opportunities that shape the creative abilities of an

individual. The Polytechnic features of science make it possible to use a variety of subjects that contribute to the discovery of individual interests and abilities of students.<sup>9</sup>

One of the directions for the content of students' creative abilities are the solution of creative issues in these drawing lessons. From the point of view of the pedagogical point of view, it can be said that in the process of creating this type of activity, the only valuable asset is the ability to open and develop.

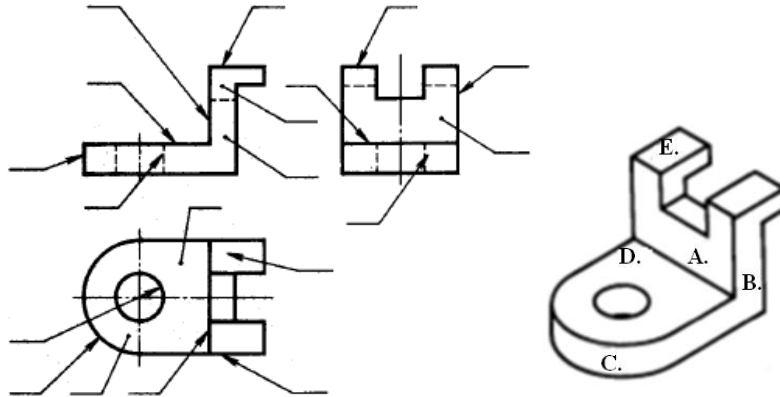
Graphic creative activity of students requires the following:

- Number and inclusion with creative content in the planning process obtained on account of the training sequence;
- graphic methods of developing creative activity ;
- selection of specific types of work more suitable teaching tools techniques for creative;
- setting the allotted time for the species is in the midst of creative tasks;
- take into account the specificity of separately in children;
- creative lesson in the process of creating an environment, to be able to treat students well and to take into account every creative proposal.

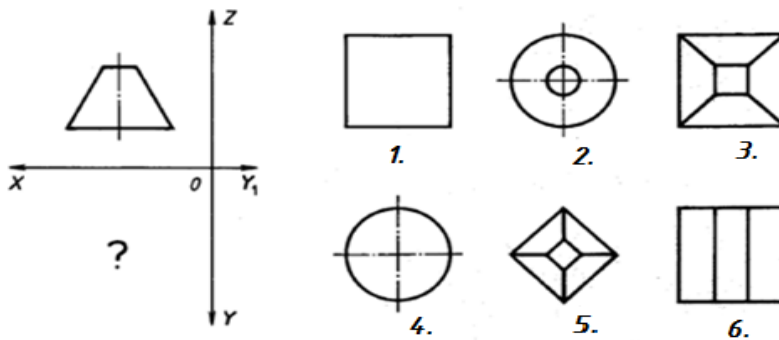
To establish creative activity, it is necessary to create conditions for solving educational tasks that can provide maximum efficiency. Students should not only have a clear set of knowledge, but also know how to master skills and apply the necessary knowledge.

The scientist, who contributed to the development of drawing methodology, according to L.M. Gosudarsky - "in order for students to fully master the graphic knowledge, first of all they need to master the deep projection drawing, which is the theoretical basis of drawing. In the field of production, drawings on a rectangular projection system are more often used. That is why it is incredibly necessary that students are deeply taught how to read and perform such drawings.

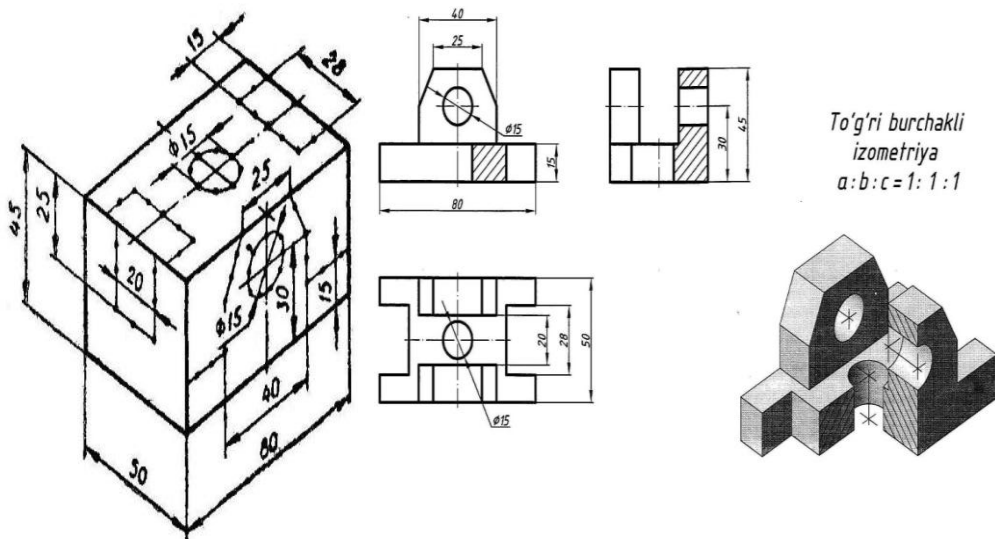
Indeed L.M.Gosudarsky correctly showed the projection drawing department as the basis of graphic literacy. Because this section constitutes the theoretical basis of the drawing course. But, it follows from the demand of that period, the graph recommends the use of some elements of geometry. This, of course, can not give the requirements of today, the goals pursued. Because, in today's day, graphic education requires teachers to develop spatial thinking of their readings through projection drawing themes, to activation their inventive and creative activities. 2-detailed axonometric in the drawing and given points in it. It is required to determine the location of these points in a detailed orthogonal projection. In this also develops the spatial imagination of the student, the ability to read the drawing and the ability to design.



2-drawing Specify the horizontal projection that corresponds to the head view of the detail(3-drawing)

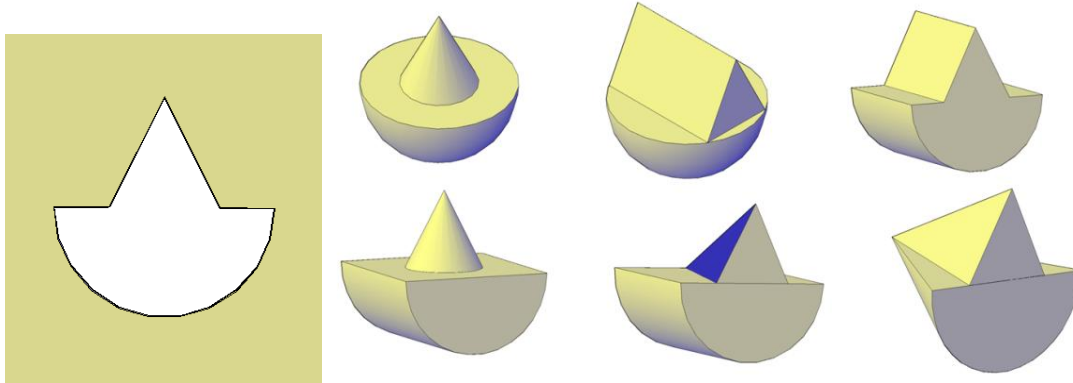


3-drawing Change the geometric shape of the detail according to the specified socket line (the line on which the points are laid) and make its appearance(4-drawing).



## 4- drawing

Draft rush eaters through a given hole (5-graph, a) details. It will be necessary to make a combination of geometrical surfaces, so that the rush can design several details. The student is given a 5-th drawing from this hole, and in 6 options in b, the ma solution.



a)5 – drawing b)

It has always been a wave of educators, specialists who begin to engage in creativity, develop creative abilities in students, engage students directly in creativity. In the content of pedagogical and psychological literature, more attention is paid in advance to the search for educational methods that promote the intellectual and practical activities of students.

It is necessary to develop creative activity in people from a very small age, from the school party. It is necessary to improve the personality of the child independent creativity due to his existing creative abilities. In this regard, educational subjects such as drawing, technological education and Fine Arts are of great help.

For the effective development of students ' creative abilities:

- develop students ' abilities and interests;
- to increase the mustache of each student in the same field, based on their capabilities;
- to have the skills of eating different creative tables;
- with the help of intelligent activity, it is envisaged to improve the creative abilities of students and improve their quality.

There are different types of creativity, which are inextricably linked with each other. In technical creativity, design cannot be distinguished from design. These two networks are connected by several types of creativity. Reflect the content of creative work in the drawing, Fine Arts and technologies, which primarily include drawings, graphic images. Therefore, there are included opportunities that can educate the quality of a creative person with the content of drawing. The creative graphic activity of students can be applied in all departments of the subject of drawing education. Along with the full implementation of the knowledge gained in this, the process of effective mastering is also carried out. One of the ways to design students ' creative abilities is to solve creative issues in these projection drawing lessons. In the process of creating this type of activity from the point of view of the pedagogical point of view, the only valuable thing is the

ability of a person to open and develop. The use of multiple-answer questions and options in solving tasks shows readers an unknown solution algorithm.

Tasks related to the design elements, which are specified in a technical or other purpose, are considered high-level for a while. It is this complex creative process that the designer, architect and designer face in his everyday activities - designing.

## DISCUSSIONS

To set up a creative graphic activity, it is necessary to create conditions that can provide maximum efficiency, solution of educational tasks. During the period when the student is studying, it is necessary to ensure that each of them adequately solves the tasks. Students not only have a clear set of knowledge, but also know how to master and apply skills. It is also necessary to create opportunities for educational and developmental education:

Graphic creative activity of students requires the following:

- have creative content in the educational process (inclusion of the obtained planning on account of the number and sequence;
- development of creative graphic activity methods;
- selection of methods of teaching aids that are more suitable for specific types of creative work;
- setting time allotted for separately types of creative tasks;
- to take into account the specificity of children in separately;
- to create a creative environment in the course of the lesson, to have a good attitude to the students and to take into account every creative proposal.

## CONCLUSION

As long as these requirements are met, they will serve a great deal of the imagination and thinking of the students. They also enable the student to develop creativity skills by engaging in logical thinking and creative research activities. Similar issues related to projection drawing also serve a great deal of the imagination and thinking of the students. Also, they will prepare the ground for the future development of good constructors, architects.

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