

## **Development of creative potential of pupils within technological preparation**

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### **Abstract**

The article discusses the need for the development of creative potential of pupils as bases of creativity in their adult life. This approach within the technological preparation implies creation of condition complex for creative development of pupils.

**Keywords:** creativity, creative development, creative potential, technological preparation of pupils.

In modern society there is increasingly higher need for highly qualified specialists, which are capable not only for productive work, but which also can easily adjust to new socio-economic conditions, and which are ready to accept and implement innovative solutions in situation of market competition.

The modern Russian education has received social order of the society - the country needs active, creative people with innovative ideas and skilful hands. The country needs a citizen, who is able to combine theoretical knowledge with the ability to work with his hands, create and improve material values, to work on the modern high-tech equipment and is able to plan his activities, but also acts as a team and build a professional career.

There is a growing need to develop possible ways, the determination of development conditions of creative potential of pupils serving as a real basis for creativity in their later adult life.

It is well-known, that «creativity» is the kind of human activity by creation new cultural and material values with public and personal significance, which is characterized by:

- a contradiction, problem situation or creative tasks;
- social and personal significance, progressiveness, contributing to the development of society and the individual;
- existence of objective (social, material) prerequisites and conditions for creativity;
- presence of subjective (personal qualities - knowledge, skills, especially positive motivation, creative abilities) preconditions for creativity;
- innovation and originality of the process or result.

If just one of above mentioned features had been deliberately excluded, it would be have two results: either creative activity doesn't take place or the activity cannot be called creative [1].

Given that we can say with confidence that technological education provides the opportunities for development of pupils' creative potential.

Technology lessons, as no other, contribute to the development of creative thinking and imagination, creativity, skills development, design, product design [4].

Creating a real object, the student can produce creative products, see things from a different perspective, identify hidden from observation in these subjects and discover new uses for them. This activity attracts pupils

because it seems unusual, interesting, full of positive emotions and enthusiastic person, and engaged pupils are capable of real creativity.

For successful creative development of students in technology education you need to create specific, well-organized conditions to use the most effective methods and techniques. The complex of conditions for creative development of schoolchildren implies:

- timely diagnosis of creative abilities and aptitudes of pupils. Each child has imagination, fantasy, but they manifest themselves differently depending on its individual characteristics. A teacher's task is to identify these features and on this basis to evaluate and develop the creative abilities of pupils;
- creating a welcoming environment in the classroom. On his lesson teacher should strengthen the faith of students in their own potential, form an interest in the lessons, create a general atmosphere of comfort, freedom and passion in order that every child was able to survive a situation of success;
- inclusion of students in the various activities of technology. If a pupil will be able to see, hear and most importantly think and try to make the productive activity, it will be fire his imagination –this is the basis of all creative activity;
- use of different types of creative tasks on the technology lessons in order to avoid monotonous and repetitive activities of students. Thereby it is not reasonable to offer pupils several creative tasks on one lesson;
- availability of objections and problems in the tasks, for which solution pupils must be involved in the real process of creative activity in creation of goods;
- unusualness, originality, attractiveness of creative activity objects of for pupils. This requires not only new and appealing result, but the process of creative activity;
- opportunity of self-selection of the creative activity objects for pupils. The objects for creativity must have social and personal significance to contribute to the development of society and the personality of pupils;
- gradual increase in the complexity and volume of creative tasks offered to pupil. All tasks must bear temper, work on creative development of students on the technologies lessons should be systematically phased and purposeful;
- inclusion of students in the creative activities on technology classes, in the collective as well as in the individual form. Collective work with the greatest educational opportunities and individual tasks meet the personal interests of the pupils and provide an opportunity to express their creativity;
- control over the process of creative activity of pupils by teacher. If a pupil doesn't get with the task, he will need to guide assistance at all stages of creation of a product. Thereby it is important not to give the student a ready answer, but to help find the answer together;
- the use of the project method on the technology lessons, which promotes disclosing of creative potential of pupils. In the project process pupils comprehend the real processes, reside specific situations, are attached to the penetration into the depths of the phenomena the design of new processes etc., that promotes creative thinking and imagination [3];
- use of the clarity method on the technology lessons with demonstration of samples, models of finished products promotes the formation of pupils' ideas about the subject world, the active development of creative imagination;
- the use of multimedia and computer training as an additional means on the technology lessons, that empowering students for work (computer simulation etc);
  - o providing students with opportunities for self-assessment of products of own creative activity. This will help students not only to evaluate their work, but also to improve its results, seek to self-perfection;
- inclusion of pupils in a group discussion of the creative work by principle: what would you change, add

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or remove in the product in order to get a beautiful and harmonious, convenient and useful. Group discussion let pupils learn to evaluate, think and express their ideas in the creative work.

Implementation of the above mentioned condition complex for creative development of schoolchildren can be traced on the example of traditional activities organization and realisation within the framework of the subject «Technology» in educational institutions of the central district of Moscow. Based on the practical experience of many years of work, following priority activities can be distinguished in the district:

- organization of large (significant, traditional activities (both in schools and in the district), and attraction of attention to the subject «Technology»;
- attraction of students and teachers to active participation in exhibitions and conferences («Russian culture in the educational area «Technology» and others);
- enhancement of the contests on the subject in the district, inclusion in the competitive activities of a larger number of students. Productive participation in various competitions, contests with creative projects on the subject (the «Step in future», “Moscow on the way to culture of peace”, the regional contest of research projects “GRANT of the Prefect of ZAO”, festival “Young talents of Moskovia”, the festival “Creativity and inspiration” etc);
- increase of professional level of technology teachers in the region;
- popularization of the subject in the pedagogical and parental public.

If the above mentioned priority directions of educational and methodical activities are considered as strategic objectives, so a variety of approaches to teaching children and to engage with their peers can be considered as tactical objectives.

No one doubts the fact, that every child is able to build and create, to give himself and people around minutes of happiness. If the products in the result of the efforts are accessed as high-quality, effective in use, valuable in the eyes of others, the person will form the base, the deep conviction of competence, the psychology of the winner and confidence in the future. A person with this inner conviction, faced with the difficult task doesn't think about how complex the task is, but how to solve it. And usually this person succeeds. A failure is for them a reason not to give up, but to get new knowledge and to seek additional resources and opportunities.

Without a doubt, a subject “Technology” is one of the few, on which students get the opportunity to create their own products, personally important for everyone, and gain experience in a real creative activity. It is very important, when large joint productive work of the pupils and the teacher receives the deserved public recognition (e.g. estimation of the jury and assessment of colleagues, the reward in the form of diplomas, financial incentives).

There is no need to prove that extracurricular forms of work with pupils increase interest in the subject. Excursion work, subject weeks, celebrations, competitions and master-classes, research projects and competitions, festivals and conferences - these and other forms of extracurricular activities are applied in district schools for development of creative potential of pupils. What is so attractive this form of work?

- First of all, the interest to participate in the less common types of work;
- the child is an active participant in the teaching process;
- the festive events is a joint activity of teachers and pupils, it is a creative process, enthralling both one and others;
- Preparation for extracurricular event displays pupils beyond the program material. This allows them to be independent, to show their creative activity in different situations, to show their skills and to achieve success;
- The transformation of the contest in celebration of the arts is not only positive emotions, but also allows

to bring together pupils, who are united by a common goal and increase interest in the technology as a subject;

- Often the great value to the personal growth is not the result of the design but the process of work;

The greatest interest among children causes classes and activities of the gaming and competitive nature. Traditional for many educational institutions of the district was realisation of the festivals-contests results:

- Competition "Fashion Planet", where all for the academic year made apparel are presented on the stage of the assembly hall;
- Competition of handmade dolls "Visit to Paraskeva Friday" with the reporting of the exhibition exposition;
- A culinary contest "We are different but we are together!", where each command presents custom and cuisine of the diverse peoples of the world.
- "New Year's Fair" - game journey to fantastic glades with skilled craftsmen and reporting fair exhibition of New Year's gifts.
- "Christmas Fair", where each group opens own cafe and organizes its festive program at the school event.
- "Spring Dance", "Christmas Divination", "Sitting Around" - holidays calendar, specially for which Russian folk costumes are made.
- Costume ball "Pushkin Spring".

Children, being the main participants in such diverse performances and fashion shows, prepare quite thoughtfully and thoroughly for such activities. To compete in contests for best chef, a designer, a seamstress, masters, an expert on theoretical competitions and of course the best designer. The work on preparing for the holidays-competitions unites pupils' team, and increases the personal qualities of the child.

Experience of the organization of the final events of various blocks of the subject, what repeatedly transmitted on the district and city seminars, regular visits to the extracurricular activities, work of district teachers in the jury allows to diversify forms of creative holidays and to expand the list of competitions in order to enrich pedagogical ideas.

All of this is reflected in the carrying out of a traditional district festival "Creativity and inspiration. The main goal of the outcome of the district holiday "The Day of Technology" in the central administrative district of Moscow was at first unique, simple and banal, but it is important at that time (the 2009-2010 school year) – it was needed to raise the prestige of the subject "Technology". Following tasks were assigned:

- the education of the children and adolescents of the general culture, artistic and esthetical taste, encouragement for their intellectual and creative development;
- development of creative imagination as well as the implementation and the embodiment of own interpretation of the subject in the modern suit;
- identification and support of talented children and youth;
- promotion and development of the national costume in children and youth;
- support in the professional orientation of pupils of the district.

During four years at the end of April one of the ZAO schools - improvised Fashion Planet has become every year the centre for creativity, skill and inspiration. With its Squares, Streets and Lanes, in which schools and colleges share their ideas, talk about their successes, introduce their winning projects, communicate with teachers of the city, visitors, associates and representatives of district administrative structures.

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Plunging into a ladies' beauty and receiving pleasure from dialogue with fashion, experiencing together with the children once onstage, we once again thank the pupils of district - winners of contest on the subject "Technology", creative contests and their mentors, summing up the festival results of great work that has been done throughout the school year within the subject.

We are glad to meet colleagues from other districts, representatives of science, editors of professional journals, staff of the department of technology of the Moscow Institute, students at the festival. It is very gratefully when the representatives of the district leadership deliver a speech on the grand opening of the festival.

It is great that the participants of the festival are young fashion designers, graduates of specialized faculties in the field of costume design. In the program of the festival there is a lot of interesting:

- workshop of technology and art teachers of central district schools and colleges teachers in the form of a game-travel to fashion planet;
- exhibition of creative works of the pupils;
- contests of young stylist and designers, conceptual designs and drawings, contest of one dress "I'm strolling through Moscow", the winner of which gets the title of "Miss sewing queen". There are some new competitions for this year: competition dolls, photo contest for teachers "Monologues of skilful hands", competition for boys "All-rounder".

Young fashion designers have created suit-image of the spring girl in the tattoos way. In 2013 the theme of the competition was: "You're out of the may flying gait".

In the designers contest you have to perform preliminary collage of the proposed different art materials with an approximate subject of: "Girl from a big city".

The team prepared the draft project of the collections should show the way from the idea, the thought of collection to the delivered results.

Methodical activists of the region, members of the jury, immediate organizers of certain tenders and teachers at the round tables get acquainted with conditions of participation, discusses the situation of the festival. For each contest criteria for assessment were developed. Many participants – children surprise repeatedly (sometimes 3rd or 4th year) and with pleasure with their original works. Engaging children in such annual systematic creative activity, we can assume that it helps us in the system of the contest movement.

Permanent participants of our final celebration are school children and teachers of institutions of secondary professional education. Traditionally honoured to open the festival premiere of fashion theatres are student-professionals of the fashion theatre "Kaleidoscope" from the light industry college Nr.5 of the central administrative district of Moscow. The team of the landscape design college Nr.18 of the Eastern district of Moscow ends traditionally the festival and participates, in the ceremony of awarding decorating their presence in our festival. Previously on the "Masters Street" students of this institution open the festival, inviting to take part in workshops. In advance we discuss the nature and shape of interpretation of professional orientation. College of services Nr.3 ZAO shows serving theme table and tricks of figured cutting. Art College Nr.59 of our district invites students to learn diverse paintings. Theatrically-art school Nr.60 ZAO demonstrates stage make-up and costumes of different epochs. College small business Nr.4 ZAO demonstrates professions in their institutions through a fascinating job with the skin. College of technology and management Nr.51 ZAO charms all with their chocolatier. Construction College Nr.1 ZAO fascinates in the world of invention.

After an hours of work on the workshops, demonstration of projects to festival guests and visiting the

exhibition and the completion of all the competitions on the “Square Masters”, “Trendy Farmstead” and “Loskut Lane” all spectators are invited to take seats in the auditorium. The holiday ends with competition of school fashion theatres.

The team has no more than 4 minutes for the presentation. It should be at least three products in the collection. In 2013 20 children's collectives were registered at the festival.

The following criteria are considered by determining the winners of the competition of collections:

- conformity of the presented collection declared subject;
- innovation of the idea;
- modern and trendy collections;
- skills and aesthetic level of performance of the collections;
- semantic construction of the show (direction, musical accompaniment);
- innovation in the area of simulation;
- innovation in the use and processing of materials;
- overall impression.

Appearance and presentation of mini-performances is a fascinating process, which develops and skills of direction productions, creation of scenery, the selection of music. This is the culmination demonstration of creative abilities and simultaneously propaganda fashion aesthetic of clothing, made by pupils hands in accordance with their perception of fashion images, silhouettes, forms and fashion in general. It could be a game or a historical journey, telling about the problems of fashion and possible ways of its development, framed by a fine frame of music, theatre, choreography and colours. Contest of school fashion theatres taking place every year within the festival has a high level of the catwalk and fashion, denying widespread myth about reluctance of modern teenagers do something by their hands. The names of the collections speak for themselves:

- “Alice in Wonderland”;
- “Course - SOCHI2014”;
- “Get dressed in Russian”;
- “City M”;
- “Window in Japan”;
- “The mystery of old photos”;
- “The whole world fell in love with flax”;
- “Flight of fantasy”;
- “Present yourself!”;
- “Magic circle”;
- “Satin watercolour”;
- “A tale in the city”;
- “Dreams”;
- “Pure geometry”;
- “Steps to the water”;
- “Soul and body”;
- “Silk history”;
- “The velvet revolution”;
- “Line of love and success”;
- “Great! And point”.

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The festival lasts 3-4 hours, thereby preparation starts in the beginning of the school year and we get inspired with the ideas at the previous festival. Design of collection sketches, correction, selection of the best ideas, practical realization of the collection, selection of video, music and great preparation to demonstrate it. All in a design – Thought, Invented and Protect the own idea.

This activity is widely advertised by press-centre of methodical centre of the ZAO as well as it is covered in the press and local TV. Further photo and video reports are uploaded on the information portal, on the results of the event all the teachers, who prepared laureates and diploma winners of competitions, are awarded with diplomas and letters of thanks.

During four years of carrying out of festival of “Creativity and inspiration” a certain format of the event lined up. At the same time we always aspire to evolve. In the program there are annually several changes: new interesting competitions, increasing number of participants and guests of the festival, increased level of submitted jury and of spectators of the youth collections, the level of sponsorship fees. In different years the social partners of the festival were:

- publishing house “Burda”,
- company “Riolis”,
- magazine “Formula of needlework”,
- publishing house “Prosveschenie, “Drofa”,
- JSC “FORMAT-M”
- famous Russian company “Tryokhgornaya manufactory”,
- company “Mary Kay”, school of Art Fashion “Silhouette”.

Some results of four years festival can be formulated in the following positions:

- creation of conditions for preservation and augmentation of the intellectual and creative potential of students;
- formation of the base for the early diagnosis of capable and gifted children;
- improving quality of education and education of schoolchildren;
- development of creative and communicative abilities;
- actively participate in district and regional events;
- expansion of cooperation;
- openness of the school etc.

During this time 67 collections of children's fashion theatres were developed and presented to demonstrate, 460 copyright clothes models were designed and manufactured to show the audience, more than 1,000 students took part in the exciting work of the festivals of different years, in the framework of the festival 68 workshops held with various themes, competitions of stylists, fashion designers, conceptual designs became traditional, 180 teachers could help children become more skilful and successful.

With no doubt, this festival will positively influence the creative development of pupils in the district and potential participants in following competitions. During four years we have prepared 9 winners of the final stage of the Russian Contest of schoolchildren on the subject “Technology” and 17 of the winners of the regional competition. 1/3 of contest winners defended the honour of the district or of Moscow city repeatedly.

Two large subject contest (Moscow Open Contest of schoolchildren and Russian technological Contest) provide an opportunity for pupils to demonstrate their abilities, knowledge, wisdom, and their skills.

Russian Contest of schoolchildren on the subject “Technology” includes four stages: school, local, regional and final. The main purpose of Contest is the development of talented children in the field of continuous

technological education. Priorities of country's development till 2020 show the necessity of wide implementation of models and approaches to the education of youth innovative behaviour, ability to create the newest competitive products, technologies, significant for the development of the country.

The Contest is a competition of the strongest and the contest on the subject “Technology” is one of the most difficult challenges, because it includes a task for design and modelling of objects of labour, the development and submission of a creative project. Attraction of students to the fulfilment of such tasks and provides them with the ability to analyse ideas and create new product to meet the needs of society.

The main goals and tasks of the competition:

- raising the level and prestige of technological education;
- use of the method projects as a means of development of pupils and creativity; attraction of schoolchildren to the implementation of socially important projects;
- revealing and encouragement of the talented and gifted students and creative work of teachers of technology;
- attraction of scientists, specialists in the field of technology to provide practical assistance in technology education students.

The participants of the contest present their researches, creative, technological and intellectual work to the jury and the audience.

The Contest 2013 showed the great importance of educational sphere “Technology” for the intellectual and creative development of pupils, their employment and moral education, professional orientation, forming their technological culture.

After school, local and regional stages of the XIV Russian Contest of schoolchildren on the subject “Technology” in the period from October 2012 to February 2013, involving hundreds of thousands of schoolchildren. The final stage of the Contest was held in Lipetsk.

About two hundred pupils (boys and girls) of 9th-11th grades from approximately 60 regions of the Russian Federation usually take part in the final stage of the Contest. Reaching the final stage, the participants gain a lot of valuable experience. They have already won in the school, local and region tour. And they all did a great job in preparing for the final stage of the Russian Contest.

Participants of the Contest take part in one of two nominations:

- “Equipment and technical creativity”;
- “House culture and art-decorative creativity”

And in each nomination participant of the Contest has to pass through three competitive tests:

- test of theoretical knowledge (testing);
- practical work on technology of processing of products;
- protection of educational creative projects.

The last round of the final stage of the Russian Contest of schoolchildren on subject “Technology” is always the protection of creative projects. This type of work is the most interesting and important, because only in project activities the student can demonstrate the depth of the studied material, show their technological and designer features and show, how the demonstrated model mock-up of a certain product, or collection of products were created.

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The Contest is held for six days. The intensive days of such large-scale event pass very quickly, where the best of the best from all over Russia compete. The experience and the skills, that the children acquire in competitions, enable them to continue to show better results. Otherwise there wouldn't be participants at the Contest, who participate in it again and again. The Contest jury feel great joy seeing how many talented young people involved in this event representing their creative projects. Only two Contest from twenty-one conducted in the country, have the protection of creative projects – there are the Contest on subjects “Technology” and “Ecology”. And on the Contest on subject “Technology” you can see a large number of new, interesting, socially oriented ideas, meet children and their teachers who creatively and with enthusiasm, put his soul, strength, time, nerves and material means. And then we have a special pride for the youth, which passes through technological Contest, which will live and work in this country.

Summarizing the material presented in the article, we emphasize that today's education is one of the priority directions in the development of a healthy and stable society. To make life better, we need moralistic, educated and creative personality.

Thus the problem of creative development of pupils in the conditions of the modern school has a dominant role. The solution of this problem in the framework of the technological preparation of schoolboys requires implementation of the above mentioned complex of conditions, which is necessary for a full disclosure of creative potential of pupils. As soviet psychologist L.S.Vygotsky wrote: “Of course, the highest expression of creativity is still available only for a few geniuses of mankind, but in everyday life around us creativity is a necessary condition of existence. All, that goes beyond routine and what is even a new note, owes its origin to the creative process of man” [2].

Creativity is undoubtedly valuable to each individual child. Creativity is important for the teacher and the subject, on which we are engaged. It is simply necessary for the future of our country!

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