ISSN: 2181-3337

International scientific journal SCIENCE AND INNOVATION Volume 2 Issue 11 November 2023



www.scientists.uz



International Scientific Journal SCIENCE AND INNOVATION Series B Volume 2 Issue 11 November 2023

Tashkent 2023

ISSN: 2181-3337 UIF-2022: 8.2 SJIF 2023: 5.608

International Scientific Journal SCIENCE AND INNOVATION. Series B volume 2 issue 11 – 721p.

The collection contains scientific articles accepted for issue 11 for 2023 of the international scientific journal "Science and Innovation".

In this scientific journal, in the form of scientific articles, the results of scientific research conducted by professors and teachers of the Republic of Uzbekistan and international higher educational institutions, independent researchers, doctoral students, undergraduates were published. In addition to higher educational institutions, the journal also includes scientific articles by employees working in other research institutes, production organizations and enterprises of our region and republic.

The materials of the journal can be used by professors, teachers, independent researchers, doctoral students, undergraduates, students, teachers of lyceums and schools, scientists and everyone who is interested in science.

This issue of the journal is indexed in the international scientific databases Index Copernicus, OpenAire, EuroPub, ZENODO, Cyberleninka and Google Scholar.

All articles were placed in the electronic scientific database of the journal (scientists.uz).

© Science and Innovation

© Authors



	Edito	orial team		
Portivor Dustamov	Chief Editor	-	Doputy Chief Editor	
Baxtiyor Rustamov Mahliyo Sotivoldiyeva	Reception Manager	Gulirano Raxmatullayeva Dilfuza Normatova	Deputy Chief Editor Translator	
Zuxra Shermatova	Translator-Editor	Abdullayeva Gulishaxnoz	Graphic Designer	
Farangiz Sagdullayeva	Technical Editor	Jabborova Sevara	Press Secretary	
Anvar Rustamov	Technical Editor	Abdivakhidova Nodira	Development Manager	
Fotima Abdumovlonova	Corrector-Editor	Qodirov Humoyun	Technical Editor	
Fotilia Abdulliovioliova			Technical Editor	
D.L		editorial board	Thl State D-d	
Bobomurod Nurillayev		gical Sciences, Associate Professor of	Tashkent State Pedagogical	
		University named after Nizami.		
Risbay Djurayev		Doctor of Pedagogical Sciences, Academician, Head of the Department of "Educational		
		Management" of Scientific Research Institute of Pedagogical Sciences of Uzbekistan.		
Barno Abdullayeva		Doctor of pedagogical sciences, professor, Vice-Rector for Scientific Affairs and		
	Innovations of the Ta	Innovations of the Tashkent State Pedagogical University named after Nizami.		
Makhmatrasuljon Djurayev	Doctor of pedagogic	Doctor of pedagogical sciences, Professor of Tashkent State Pedagogical University		
	named after Nizami.			
Shavkat Akhrarov		cal sciences, Professor of Tashkent s	state pedagogical university	
	named after Nizami.	······································	1 8 8	
Jabbor Usarov		Doctor of pedagogical sciences, Dean of the Faculty of Pedagogy of Chirchik State		
JUDJUI UJUIUI	Institute of Tashkent		caugogy of emiente State	
Barno Sattarova		gical Sciences, Vice-Rector for Educat	ional Affairs of Panaissance	
Dai nu Sallai Uva	Educational Universi		ional Artairs of Renaissance	
Minne olahama di Wasahara			-f Dharris - f (1 - N (1 - 1	
Mirzaakhmad Kurbanov		al sciences, Professor of the Faculty	of Physics of the National	
		stan named after Mirzo Ulugbek.		
Erkin Khujanov		Philosofy Doctor on pedagogical sciences, Head of Department at Tashkent State		
		Pedagogical University named after Nizami, associate professor.		
Ozod Abduganiyev		Philosofy Doctor on pedagogical sciences, Scientific Secretary of the Scientific research		
		cal sciences named after T.N. Kory Ni		
Nazokatkhon Tojibayeva	Philosofy Doctor on	Philosofy Doctor on pedagogical sciences, Associate Professor a.i. at the Department of		
	"Foreign Languages	"Foreign Languages in Exact and Natural Directions" of Tashkent State Pedagogical		
	University named aft	er Nizomi.		
Khurshida Makhmudova	Candidate of Pedage	Candidate of Pedagogical Sciences, Associate Professor of Belarusian-Uzbek Joint		
		Interdisciplinary Institute of Practical Technical Qualifications in Tashkent.		
Ibrokhimjon Zakhidov		Candidate of Pedagogical Sciences, Associate Professor of Namangan State University.		
Feruzakhon Urinova		Candidate of Pedagogical Sciences, Associate Professor of Preschool Education		
refuzakion Offitova	Department of Ferga		n of Tresenoor Education	
Lobarkhon Qarakhonova		n pedagogical sciences, Head of	the department "Teaching	
Lobarkholi Qarakholiova			the department Teaching	
T 1 + X7 1 +		al sciences" of SRIPSU.		
Islamjon Yakubov		al Sciences, Professor of the Departm		
		Studies of Tashkent State University	y of Uzbek Language and	
	Literature named after	er Alisher Navoi.		
Ravshan Jomonov		gical Sciences, Professor of the State A	cademy of Choreography of	
	Uzbekistan.			
Shirbacheyeva Gulchexra		y in Pedagogical Sciences, Tashkent S		
		, head of the "Psychology and pedag		
	department, faculty of	f "Pre-school education", associate pr	ofessor.	
Dilfuza Begmatova		Candidate of Pedagogical Sciences, Head of the Department of General Physics of the		
		the National University of Uzbekistan		
Khamrakul Sanakulov		gical Sciences, Head a.i. of the Dep		
Sanahir anar Sanahurov				
Tozogul Motyoguboyo		Primary Education and Methods of its Teaching of TSPU named after Nizami. Candidate of Philological Sciences, Associate Professor of the Department of History of		
Tozagul Matyoqubova		Uzbek Literature and Folklore of Tashkent State University of Uzbek Language and		
			ity of Uzbek Language and	
	Literature named after			
		philological sciences, Associate Profes	sor a i of the Department of	
Nargiza Tokhtayeva				
	General Linguistics	of Tashkent State Pedagogical Univers	ity named after Nizami.	
Nargiza Tokhtayeva Fakhriddin Yuldashev	General Linguistics		ity named after Nizami.	

FORMATION AND DEVELOPMENT OF PRACTICAL SKILLS IN PRIMARY CLASS STUDENTS BASED ON CLUSTER APPROACH

¹Khimmataliev Dostnazar Omonovich, ²Ernazarova Munishkhan Zhorakulovna

¹Doctor of Pedagogical Sciences, Professor ²Teacher of the Department of Pedagogy ^{1,2}Chirchik State Pedagogical University *https://doi.org/10.5281/zenodo.10207590*

Abstract. In this article, the formation and development of practical skills of elementary school students based on the cluster approach is one of the urgent pedagogical problems of today. *Keywords:* education, preschool education, school, higher education, teacher, student, student, method, practical skills, interactive, ability, technology.

People with intellectual potential are independent-thinking, skilled, educated personnel with high human qualities who can ensure modern development of international standards. In independent Uzbekistan, the state policy aimed at forming a new generation of high intellectual potential personnel is being pursued. One of the main tasks carried out in this way is the establishment of a new educational system that will be the basis for the development of independent Uzbekistan. The Decree of the President of the Republic of Uzbekistan on the approval of the national program for the development of public education in 2022-2026 [1] is a clear example of this.

From September 1, 2021, the new National Curriculum will be introduced into the educational process. In the textbooks of this program, special attention is paid to the development of oral speech and logical thinking of students. This, in turn, serves to develop students' intellectual abilities and thereby provide society with educated, potential, and capable human capital[3]

It is appropriate to start the formation and development of practical skills in elementary school students first of all from the family. "When I am asked what is the greatest wealth, an educated, intelligent, polite, thinking child is the greatest wealth of parents.

I would say that it is wealth, - said the first President of Uzbekistan I.A. Karimov in his article "The welfare of the family is the welfare of the nation". Such

those who have wealth are recognized by the community as rich parents, rich family. Such a family will never be humiliated."

Naturally, no family can achieve such a high position on its own. For this purpose, due to the healthy family environment, great mentoring service of parents, their comprehensive upbringing faithful to the teachings, teachings and traditions of their ancestors, they raise intelligent, cultured, righteous children. can be brought to adulthood. These children are the unique wealth not only of the family, but also of the community, neighborhood and, finally, the nation. That is why, according to historical sources, when asked what is the most complex and at the same time responsible profession and task in the world, parents. It is not for nothing that he answered that it is his job and coaching profession[4]

Today, in order to form practical skills in our children, raising children in families in the spirit of national independence, instilling in them national pride, national consciousness and self-

awareness, feelings of patriotism, instilling the idea of love for the child and the country, the nation and the people By cultivating a sense of respect for the past and its values, it is possible to create a foundation for deep study of the scientific heritage of our ancestors.

Today's children's formation and development of their practical skills is influenced by the neighborhood factor, which is a national model of self-management - a unique socio-spiritual environment in which the main part of a person's life passes, his thinking, his attitude to life is formed. In our opinion, we must also connect to the factor of existing labor teams. The reason is that the Uzbek family has never lived apart from the neighborhood. The family qualities of the family have always been manifested in the life of the neighborhood. That is, the upbringing of the child in the family is clearly visible in the activities held in the neighborhood. Our children acquire the norms of etiquette in the neighborhood more perfectly. If our educational system is based on the principle of integrity of education and upbringing, the quality of education will be high in the place where well-educated children receive education. In this way, we have taken the first steps to form and develop the practical skills of our children on a cluster basis. The next step is the organization of preschool education. In this place, not only upbringing, but also education is given to children in an integrated manner. It is here that parents should be given another task - the task of cooperating with the preschool education organization in order to facilitate the child's integration into the educational process. The use of parental support will have a positive effect so that the child acquires and consolidates the basic knowledge he receives in kindergarten. In this regard, it can be achieved by explaining and teaching parents that we can use them to educate our children, as a result of the extreme improvement of communication tools and the excessive expansion of communication communications.

In raising a child, the activities of the family, school, and community should be focused on one goal, complement each other, and be mutually cooperative. Only then this activity will give expected results as a whole.

In the family, parents should teach their children the need to learn, that a person can reach the peak of maturity thanks to knowledge. After all, the key to any field is knowledge, intelligence and hard work. If a person diligently acquires knowledge, applies it in practice, sharpens his thinking by thinking, he will definitely achieve his goal. Therefore, our parents should create an opportunity and family environment for their children to study and engage in science. He should be aware of his children's manners at school, their passion for learning, and their interests. Helping parents with their children's tasks in a subject if they can give, it is appropriate to talk about the fact that the child will not ask anything from them next time, he may not want to teach.

Every evening, especially in primary classes, it is necessary to monitor, inquire and help the children's studies. A child who gets used to studying every day will later become accustomed to studying on his own even when control is reduced.

If you want your child to have a bright future only if you get knowledge, whether you are engaged in commerce, whether you become an engineer, a scientist, a doctor or a designer, whether you run a company - for everything you need knowledge, you need thinking, you need intelligence. if he explains that perception is necessary, the child will try to learn and will work for himself.

What do you think a primary school teacher should do to form and develop practical skills of primary school students based on the cluster approach? In our opinion, neighborhood, preschool education, and school cooperation play an important role in this regard. The elementary school teacher in the general secondary educational institution works in this regard on the basis of

the principle of easy-to-difficult practical skills of the student. should be formed. It is appropriate to teach a first-grade student how to write numbers, and then teach him to perform operations on one-digit numbers in the example of mathematics lessons. By assigning independent tasks to students as homework, the development of the practical skills formed in them is achieved. Handouts, instructional tools and methods used by science teachers with a creative approach are of particular importance in the formation and development of students' practical skills. Examples include:

Didactic game "Silence".

Didactic task: to determine children's understanding of simple counting and strengthening.

The task of the game: to count specific items "in mind" and the required number with fingers show

The course of the game: the teacher acts as a leader.

Teacher:

- Guys, let's play the game "Silence". I have different things for you now

I'll show you. You will have to find their number.

The children suddenly burst into conversation.

"No, guys." You must raise your hand before answering.

The teacher lists circles and sticks to the children.

- Now I will show you things. You count without making a sound, you show with your fingers how much it is.

When the teacher shows 4 dolls, all the children show their four fingers shows. Silence in the classroom. All the children's attention is on completing the task directed.

Teacher:

- Congratulations, you all calculated correctly. Now I will take the counting stick from one hand to the other, and you count them without making a sound, and then you will show me how many there are.

Children follow the actions of the teacher, count and 10 fingers they show

Teacher:

"Now count the squares," he says, putting squares on the board one after the other.

Children count and show 6 fingers.

Here is an approximate level of children's knowledge of the first ten is determined by the ability to count on the fingers as many things as are shown is strengthened practically.

In addition, they also have the ability to count "in the mind" without making a sound is formed. Children actually achieve counting without having to repeat it out loud they can't, only the rule of the game requires them to sit quietly, and they count without making a sound. The convenient part of doing this is that the children's entire attention is occupied only with completing the task. In the next lesson, the conditions of the game will be more complicated. Through this game, students' quick movement skills are strengthened. At the same time, it becomes possible to determine who is performing the task quickly and who is slow. This, in turn, helps to determine which students the teacher should be more involved with and which students should involve their parents more in education in which places.

In conclusion, in forming and developing the practical skills of elementary school students based on a cluster approach, as a result of the cooperation of the family, preschool education,

neighborhood and general secondary education organization, a solid foundation is created for the development of the necessary personnel for the society.

REFERENCES

- 1. Ghaziyev. E Jabborova. A "Activity and behavioral motivation" T. 2003y
- 2. Botayeva. H "Psychological characteristics of the formation of mental development in elementary school students"References1.
- 3. Obrazovanie nauka i innovatsionnye idei v mir Ehttp: //www. newjournal. org/Vypusk zhurnala No-10 Chast-1_Dekabr-2022 1202181-3187 Development of intellectual abilities of primary school students based on cluster approach Khimmataliev Dostnazar Omonovich Ernazarova Munishkhan Zhorakulovna
- 4. Algarov, R. Mamatkulova, Kh. Norkulov. Pedagogy of personal and family education. -T.: "Science and technology", 2009, 21 pages.
- 5. Omonovich, Ximmataliev Do'stnazar, and Ernazarova Munisxon Jo'raqulovna. "BOSHLANG'ICH SINF O'QUVCHILARINING INTELLEKTUAL QOBILYATLARINI KLASTERLI YONDASHUV ASOSIDA RIVOJLANTIRISH." *Journal of new century innovations* 10.1 (2022): 120-123.
- 6. Himmataliev, D., and R. Karimov. "DEVELOPMENT OF CREATIVE COMPETENCIES OF SCHOOLCHILDREN." *Science and innovation* 2.B2 (2023): 186-190.
- 7. Khimmataliev, D., and R. Karimov. "OPPORTUNITIES TO DEVELOP CREATIVE COMPETENCIES OF SCHOOLCHILDREN IN EDUCATIONAL CLUSTER CONDITIONS." *Science and innovation* 2.B7 (2023): 138-141.

Sayfullayeva Gulkhayo Ikhtiyarovna, Bozorova Aziza Murodullaevna THE USE OF STEAM TECHNOLOGY IN LABORATORY CLASSES IN PHYSICS AND ASTRONOMY	442
Baibekova Madina Mahmudkhanovna, Sanzhar Mamadaliyev, Orazbay Aizhan Bauyrzhanovna PROFESSIONAL READINESS OF FUTURE TEACHERS TO WORK IN THE INCLUSIVE EDUCATION SYSTEM	447
Choriyev Ruzimurat Kungratovich, Mukhitdinov Abduvakhab Abduvalievich METHODOLOGY FOR USING 3D TECHNOLOGIES IN THE FORMATION OF CONSTRUCTIVE COMPETENCES OF STUDENTS	454
Yermekbaev Mukhtar, Mirzakhmetov Murat, Manashakhov Yersultan THE PROBLEM OF FORMATION OF LANGUAGE COMPETENCE OF PRIMARY SCHOOL	459
Yermekbaev Mukhtar, Mirzakhmetov Murat, Manashakhov Yersultan THE ROLE OF VISUAL PRINCIPLES IN THE FORMATION OF LINGUISTIC COMPETENCIES OF STUDENTS	465
Mirkozmjon Nishonov, Diera Mamaraimova ON THE PROBLEM OF INTRODUCING ECOLOGICAL CONCEPTS TO THE CONTENT OF THE CHEMISTRY COURSE OF ACADEMIC LYCEUMS	470
Ernazarova Gulnora Oblakulovna FORMATION OF TECHNOLOGICAL COMPETENCE IN FUTURE EDUCATORS	473
Rakhmanova Dilfuza Uchkunovna PSYCHOLOGICAL DETERMINANTS OF STUDENTS' INTELLECTUAL ACTIVITY OPTIMIZATION	478
Khimmataliev Dostnazar Omonovich, Ernazarova Munishkhan Zhorakulovna FORMATION AND DEVELOPMENT OF PRACTICAL SKILLS IN PRIMARY CLASS STUDENTS BASED ON CLUSTER APPROACH	484
Halikov Azam Abdusalomovich PSYCHOLOGICAL APPROACH TO PROFESSIONAL REFLECTION IN THE PEDAGOGICAL ACTIVITY OF A PRIMARY SCHOOL TEACHER	488
Khalikov A'zam Abdusalomovich COMMUNICATIVE METHODS OF COMMUNICATION WITH STUDENTS	491
Halikov Azam Abdusalomovich FUNCTIONS THAT DETERMINE THE TEACHER'S ATTITUDE TO CONFLICT SITUATIONS	495
Abduvokhidov H.A FORMATION OF COMPETENCE IN THE EDUCATIONAL PROCESS AND IMPROVEMENT OF QUALITY EFFICIENCY IS THE DEMAND OF THE TIMES	498
Khushmurodova Ismigul Berdimurodovna CONTENT, PURPOSE AND TASKS OF THE SCIENCE OF PEDAGOGICAL DIAGNOSTICS	502
Madinakhon Alimova Iskandar kizi APPLICATION OF INFORMATION-COMMUNICATION AND ADVANCED PEDAGOGICAL TECHNOLOGIES IN IMPROVING THE ENGLISH LANGUAGE COMPETENCE OF TEACHERS IN THE CONDITIONS OF DIGITAL EDUCATION	505
Shukurova Nargiza Ikramovna RELATIONSHIP BETWEEN PSYCHOLOGY AND MYSTICISM	510
Sharipova Guzal Zhumanazar kizi CONCEPT OF ECONOMIC LITERACY	514
Zoirov Sanjaridin, Xoshimov Temur METHODS OF CREATING VIRTUAL LABORATORIES IN THE "LABVIEW" PROGRAM	519
Abdusamatova Sh.S. DESCRIPTION OF MODERN CONCEPTS OF EMOTIONAL INTELLIGENCE	524
Shovkiddin Narziev Murtozaevich, Mudarisova Rayxon Khojievna MEASURES TO PREVENT OCCUPATIONAL DISEASES AT WORK	530
D. B. Jonibekov IMPROVEMENT OF DIDACTIC GAMES AND MATERIALS IN DIGITAL EDUCATIONAL ENVIRONMENT BASED ON 4K MODEL	535
Maxsudova Sohiba Karimkul qizi THEORETICAL AND METHODOLOGICAL BASIS OF DEVELOPING THE CREATIVITY OF FUTURE PRIMARY CLASS TEACHERS	540
Akhmedova Zulayho, Berdieva Zamona METHODS OF TEACHING ENGLISH AND OTHER FOREIGN LANGUAGES	544
Abdullayeva Gavhar Saparovna, Mirzayeva Muhabbat CORRECTIONAL AND EDUCATIONAL OPPORTUNITIES FOR THE USE OF INFORMATION TECHNOLOGIES IN TEACHING STUDENTS AT HOME	549
Mirzayeva Muhabbat INNOVATIVE ACTIVITY OF A FOREIGN LANGUAGE TEACHER WHEN WORKING WITH DISABLED CHILDREN WHO ARE HOME- SCHOOLED	554
Sharapova Sabohat Djabbarovna PSYCHOLOGICAL ASPECTS OF PROTECTING YOUNG PEOPLE FROM VARIOUS INFORMATION THREATS	558
Xazratkulova Dilfuza Hamrakulovna THE EFFECT OF FAMILY VALUES ON ENSURING FAMILY STRENGTH	561
Ganieva Adiba Tursinboy kizi SPECIFIC ASPECTS OF COGNITIVE TECHNOLOGIES, COMPOSITION AND STEPS OF APPLICATION IN THE PROCESS OF FORMING CREATIVITY IN FUTURE TEACHERS	566
Khimmataliev Dustnazar Omonovich EDUCATIONAL CLUSTER AS A MODERN MECHANISM OF CONTINUOUS EDUCATION	570
Muxlisaxon Abdujalilova THE PRACTICAL SIGNIFICANCE OF STUDYING THE CREATIVE EXAMPLES OF ANVAR OBIDJAN IN PRIMARY CLASS READING LESSONS	574
Ismailova Z.K. DIAGNOSTICS OF LEVEL OF DEVELOPMENT OF PROFESSIONAL COMPETENCE OF PEDAGOGICAL PERSONNEL IN THE SYSTEM OF TRAINING	577