

CLUSTER METHOD IN GEOGRAPHY EDUCATION
("CLIMATE OF MIRZACHOL, INLAND WATERS AS AN EXAMPLE)

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Abstract:

This article talks about the development of critical thinking skills based on the cluster method in the interactive study of the topic "Climate, internal waters of Mirzachol" in the "Natural Geography Course of Uzbekistan", about the use and advantages of the cluster method. information is provided.

Keywords: Innovation, pedagogical technology, cluster method, interactive method, education, critical thinking, cluster assignment, cluster test, educational methods, geography education.

CLUSTER METHOD IN GEOGRAPHY EDUCATION
(IN THE EXAMPLE OF THE SUBJECT "CLIMATE, INLAND WATERS OF MIRZACHOL")

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Annotation:

In the "Course of Physical Geography of Uzbekistan" it was mentioned about the development of critical thinking skills based on the of Mirzachol", the use and advantages of the cluster method.

Keywords: Innovation, pedagogical technology, cluster method, interactive method, education, critical thinking, cluster task, cluster test, educational methods, geography education.

Introduction

The concept of innovation in pedagogy appeared in the 60s of the 20th century when the concept of "educational technology" was recognized in the USA and Western European countries. Innovation is a concept that means "Innovation in English, this is the process and activity of introducing innovation, change into practice (introduced innovation, invention). It reflects innovations in the fields of engineering, technology, management and labor organization based on scientific and technical achievements and best practices, as well as their application in various fields and circles [page 10.29]. The concept of innovation is an important link, an integral part of today's education system, because today it is very difficult to develop education without innovation. To organize modern education as new pedagogical technologies enter the educational process One of the important requirements is to achieve high results in a short time without spending too much mental and physical effort. In this regard, the

concept of innovation and the methods introduced into the system will help us closely, especially the development of critical thinking in the course of the lesson and some methods for interesting organization of the lesson. Use is of great importance. Today, developed countries have accumulated a lot of experience in using pedagogical technologies that increase the learning and creativity of students and guarantee the effectiveness of the educational process, and interactive methods form the basis of this experience. In particular, in our country, a national education program aimed at building new schools, strengthening the material and technical base of the existing ones, and ensuring coherence between all stages of the field has been developed in order to raise the educated young generation. [page 9.37] It is necessary to use different methods of education to allow independent and free expression of ideas, to develop creative to activity, allow students to be creative, and to use methods that awaken and activate the minds of students.

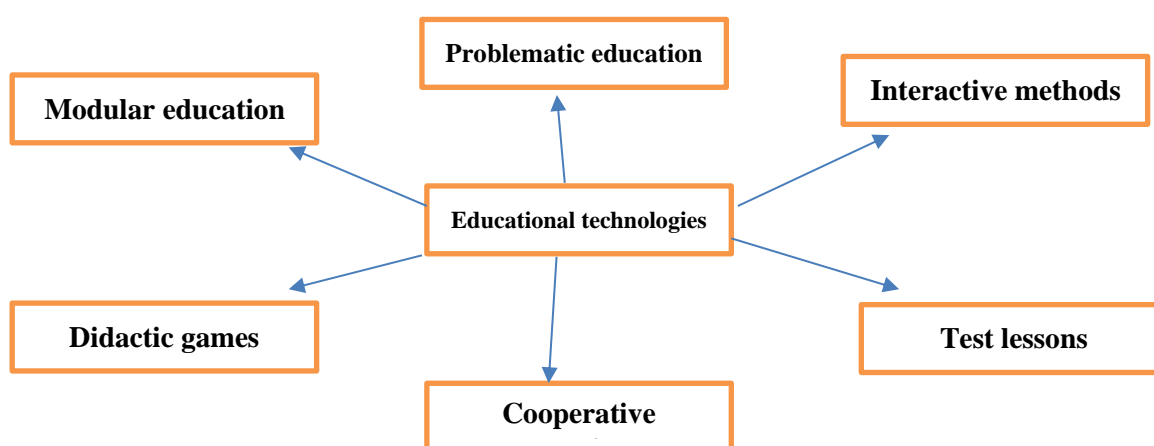


Figure 1. Educational technology cluster.

As reflected in this cluster, education is effective in any case a great result can be achieved by using various methods and technologies in organization. Moderator teachers who are engaged in pedagogic activity in line with the times are acquiring certain experiences in the use of interactive methods, pedagogical and information and communication technologies in teaching in accordance with the above-mentioned requirements. Professional-pedagogical and private competences of the teacher are of great importance in the formation of content for the development of basic and critical thinking skills of students. The problem of formation of knowledge and skills based on the development of critical thinking skills of students based on the application of the "Cluster" method in the educational process is considered an urgent issue in the field of pedagogy and geography teaching methodology.

Literature analysis

Works, lectures of the President of the Republic of Uzbekistan, literature on the subject and Internet resources were used. During the writing of the article, the principles of theoretical-deductive conclusion, analysis and synthesis, logicity were used. it can be seen, moreover, several laws and decisions on the development of education are proof of this. In particular, the problem of pedagogical education cluster and its implementation in our country has been widely studied in recent years as a separate object of research. The scientific-theoretical basis of the innovative cluster of pedagogical education, its description as a new innovative direction in education and the mechanisms of implementation

G..Mukhamedov, U.N. Khodjamkulov, Sh.1.Botirova, He defined the cluster as an association of enterprises and organizations that are geographically adjacent, connected to each other, operating in a specific field and each other's work[Page 4.3.] In pedagogy, it is also called "cluster" - "technology of the network method", and this method is aimed at teaching logical thinking, expanding the scope of general studying topic in depth from thinking, independent use, and before the any literature, students' thinking it is used in the sense of a method that serves to accelerate and expand its activities. [page 12.34]. The article by Ye.M. Tereshina and V.M. Volodina gives the author's definition of the concept of "Cluster" from the point of view of the network approach: "A cluster is a mostly independent, geographically adjacent, mostly informally interconnected is a network group of related and mutually complementary organizations, acting flexibly and quickly based on the principles of cooperation, competition and network relations in related fields, which increase their competitiveness and level of economic activity. territory" [p. 3.165]. All definitions of the concept of "cluster" are generally similar and include the following common features:

- 1) Geographical concentration and proximity of cluster enterprises and organizations;
- 2) a wide range of participants reaching a single strong leader,
- 3) existence of stable and long-term relations between the participants;
- 4) members and of the region where it is located strong positions.

Based on the analysis of different formulations of the term "cluster", the following interpretation of the concept of "Educational cluster" can be proposed: An educational cluster is located in the same area, connected by horizontal and vertical connections, having the appropriate legal form and educational institutions, scientific organizations, economic operators operating in the field of vocational education it is a synergistic effect to achieve common goals based on the goals of entities, a set of authorities, and individual participants. [12. page 34]

Therefore, the use of various interactive methods of education in solid learning of the textbook is very effective. In particular, interactive methods-cluster method is of great importance in the solid study of the course "Natural Geography of Uzbekistan". Because with this method, critical thinking skills can be formed in students, therefore, if the cluster method is used to teach students about the sources of natural geography of Uzbekistan, the intended goal can be achieved. In particular, the following instructive thoughts of the head of our country will give us more strength and enthusiasm in this regard: "If we raise every child in our multi-ethnic country Uzbekistan as "this is foundation, the ground of my tomorrow," we will definitely achieve my child, the results", [1.page 5].

Discussion and Results critical thinking skills in teaching the "Natural Geography of Uzbekistan" course in geography education is very convenient. The use of clusters of different In particular, the use of the cluster method in the formation of students' complexity in the study of each of the sources of the country in the course of the lesson teaches the student to think constantly, especially as a result of the conflict of ideas, an atmosphere of critical thinking appears in the class, in particular, the knowledge of the country is based on solid sources. It is appropriate to give resources as a cluster task in learning. For example, if the geographical location of Uzbekistan is studied by dividing students into small groups, "Climate, internal waters of Mirzachol" can be studied through the cluster method, in which the use of the following tasks can be highly effective.

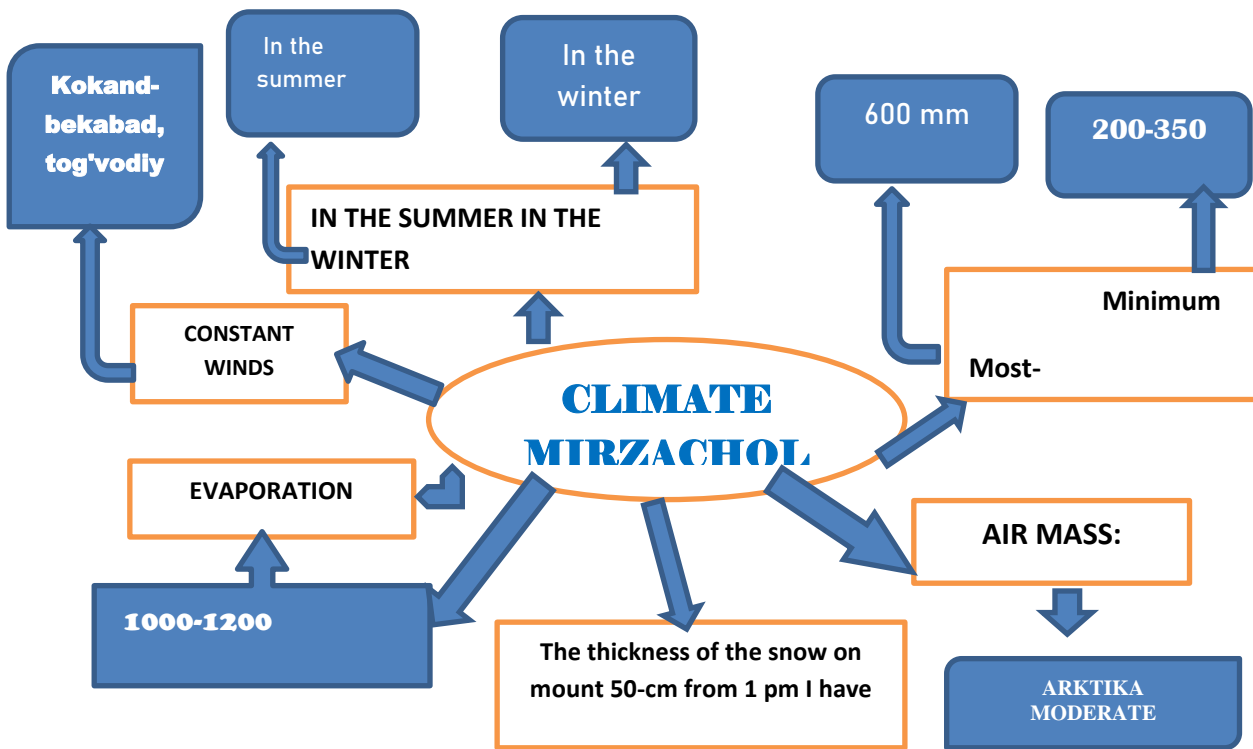


Figure 2. Climate cluster of Mirzachol natural region.

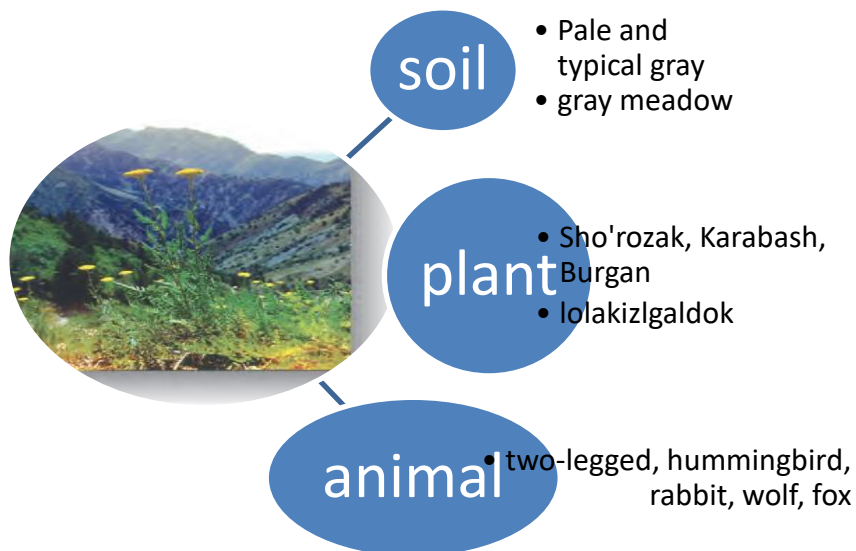


Figure 3. Mirzachol natural area natural zone cluster.

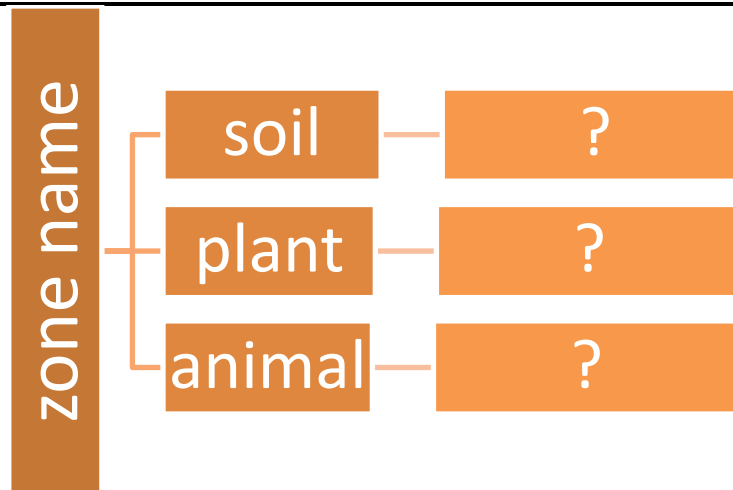


Figure 4. Continue the cluster of the Mirzachol natural area nature zone.

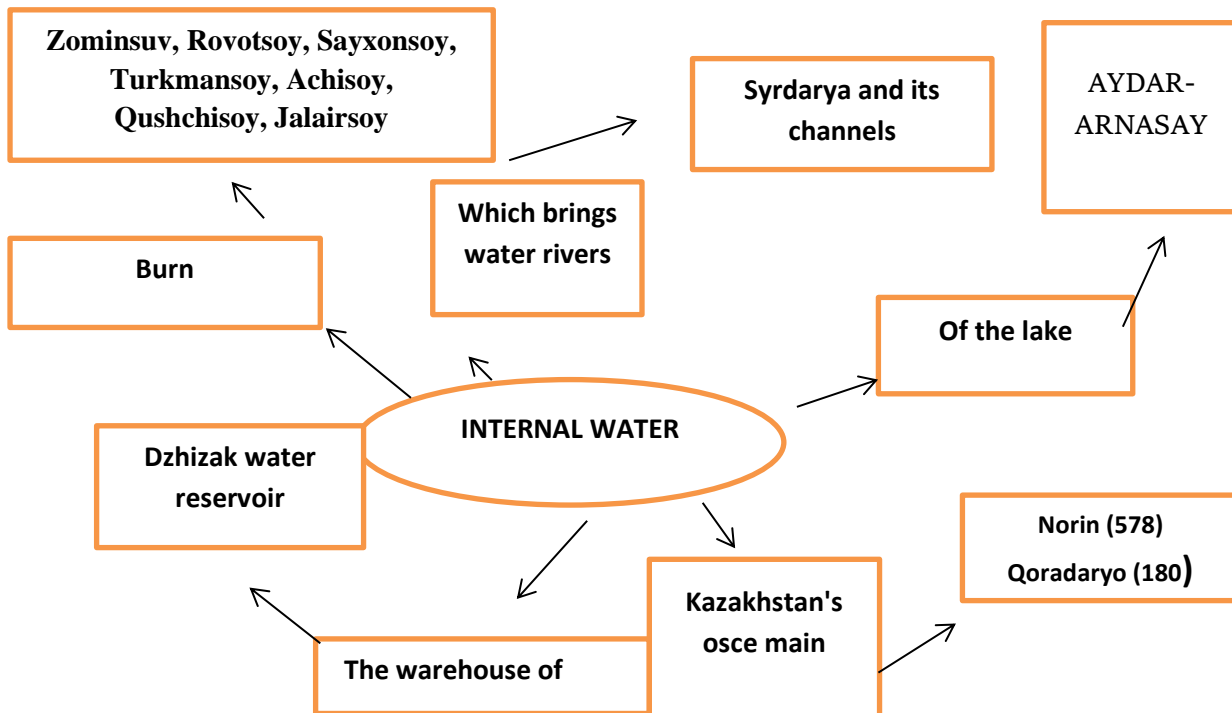


Figure 5. Cluster of inland waters of Mirzachol natural region.

When explaining the climate of the country, it is necessary to create complex clusters, because climate indicators - temperature, winds, evaporation, storage of falling precipitation on the surface of the earth precipitation

Summary

It can be seen that improving the quality and effectiveness of education is becoming an urgent task, for this every teacher should be familiar with the most effective technologies for teaching his subject and continuously study the innovations in this field, is required to improve his professional skills regularly. This process, in turn, makes it possible to raise a competitive, inquisitive, especially creative-thinking,

highly educated and intellectually developed generation. In general, non-traditional technologies used in the educational process increase students' motivation, create a collaborative environment, and give them a sense of creative freedom and self-esteem. In this regard, it is possible to educate the critically thinking young generation in demand of the times by constantly striving for innovation, introducing innovative technologies and various interactive methods into the teaching process.

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