



METHODS AND STAGES OF MODELING THE CONTENT OF EDUCATIONAL MATERIALS OF SPECIALIZED SUBJECTS

Muminjonova Mukhayo Gulomovna

Jizzakh Polytechnic Institute

Abstract

This article presents the results of research on the methods of mastering general professional subjects based on modern approaches. At the stage of development of modern education, it is necessary to establish pedagogical changes to create a new generation of textbooks, and through these changes, the criteria and forms of the analysis of educational literature have been determined.

Keywords: events, objects, technological processes, technological operations, experimental experiments, leading ideas, thermal treatment, mechanical treatment.

Introduction

At the moment, it is important to direct students of primary education courses in the higher education system to the profession, to form creative thinking skills in them, to create conditions for them to determine an independent way of life according to their abilities, wishes and desires, to form a worldview, high work discipline and culture. Because in the future, the training of highly qualified personnel who can use new techniques and technologies and make independent decisions starts from higher education institutions. In the implementation of these tasks, it is important to provide modern educational literature covering the latest achievements of the educational process, new techniques and technologies.

The creation and introduction of modern "Technology and its teaching methodology" textbooks for higher education institutions into the educational process plays a major role not only in the acquisition of modern knowledge of the young generation, but also in the formation of practical skills and competencies.

Here B.M. Mirzakhmedov "At the stage of development of modern education, it is necessary to establish pedagogical changes to create a new generation of textbooks, and through these changes, the criteria and forms of the analysis of educational literature will be determined. A well-written textbook eliminates many problems and difficulties in the educational process, increases the effectiveness of teaching, ensures the systematization of the knowledge of elementary school students, develops their creative abilities, and increases their professional interest" [1].



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The new generation of textbooks should embody the content of the subject and the cognitive activity of primary school students [2].

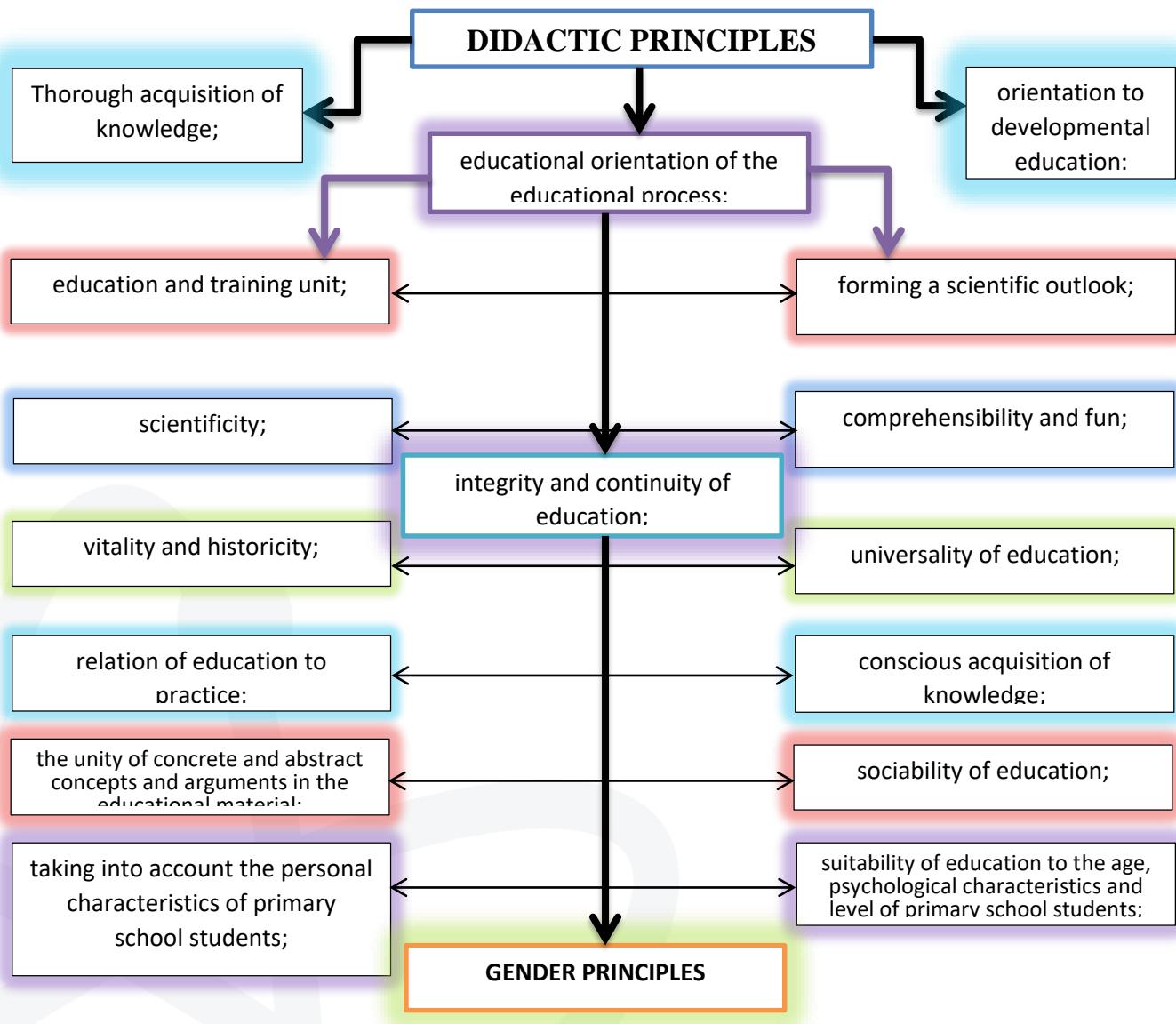


Figure 1. Didactic principles of creating electronic textbooks

That is why it would be appropriate to clearly define the place and role, task and purpose of the science "Technology" today, to create a new generation of textbooks based on the requirements mentioned in the above paragraph and taking into account pedagogical changes.

The following didactic principles were developed by scientists who conducted research on the theory of creating textbooks for higher education [3].



A number of scientists focused on the modeling of the textbook, including A.K. we recommend the model (picture) [4].

Some authors describe the stages of creating educational literature in the following order [5]:



Figure 2. Scheme of stages of creation of electronic educational literature

Each educational element of the textbook or criterion revealed its essence and content.

The main text serves as the main source describing the educational material that must be studied and mastered by the elementary school student.

In pedagogical literature, the main texts are also divided into two groups,

Theoretical - scientific texts. These texts include the following aspects:

- basic terms and language of science; main facts - events, objects, technological processes, technological operations, inventions and discoveries, experimental experiments; basic theories; leading ideas and current directions; scientific and technical achievements; it is necessary to describe ideological generalizations and evaluations of the worldview [5].



In the main texts of the textbooks "Technology and the methodology of its teaching, the specialty science", technical knowledge, technological processes, the facts and laws underlying the entire social production should be theoretically fully covered, because it connects the scientific and practical foundations of the technical knowledge and skills of primary school students in a single unit. In the textbooks "Technology and the methodology of its teaching, the specialty subject", primary school students learn to work with many labor tools (tools, devices, accessories, machine tools) with technological operations typical for many productions, learn the rules of labor safety, that is, workers learn about the basics of labor activity. have imagination. Gradually, a holistic idea of the production process and its components is formed in their minds. For this, three following components are studied: subject of work (materials), tool of work, technological processes.

In the main texts of the textbook of technology and the methodology of its teaching, attention is paid to the issue of studying materials. Materials such as paper, cardboard, fabric, plastic, wood, metals are needed during the entire technology and teaching methodology.

The study of materials in the text, that is, their field of application, production methods, main properties of materials (mainly physical and mechanical); density, color, durability, plasticity, brittleness, flexibility, wet tensile properties, etc.

Experimental - practical text. In this text, the methods of practical activities performed by the elementary school student in mastering the educational material "Technology and its teaching methodology" and learning independently, the technological process for learning all the topics in the curriculum is based on this basis, and on this basis, elementary school students consistently study technological operations [7].

Based on the sequence of all technological operations studied in technology classes, their division into the following groups should be indicated in the text.

In the text, it should be explained that a certain consistency should be followed when learning a new technological operation.

For example:

1. Explain the rules of labor safety and the task and nature of the technological operation.
2. Work tools (or machine tools) necessary for its execution.
3. Demonstration of performance techniques.
4. Elementary school students will be introduced to the performance of work using machines (machines) in production conditions.



In the text, the tool, which is an important component of the production process, is one of the equipment groups. Elementary school students should know this for sure. Often, even adults equate the concept of "technique" with the concept of "machine" [8].

Additional texts. These include textbook designations, documentary materials, exercises aimed at forming practical skills, conclusions, recommendations, and informative materials.

This type of text strengthens the learned material, helps to systematize it. Oral and written exercises are intended for direct practical work of elementary school students. By doing such work, elementary school students acquire certain skills and abilities.

Expository text is a written structure intended for understanding and deeper mastery of educational material. Explanatory texts help a lot in mastering the textbook learning material. They include: introduction, comments, appendices, supporting phrases, explanations, glossaries. These texts should be comprehensible, short and clearly form a certain concept [9]. For example, in the field of technology and its teaching methodology, the basic phrases often found in the specialty include material, detail, manufactured and semi-finished products, raw materials, thermal processing, mechanical processing, technology, operation, technological card, mode, production series, etc.

A component that organizes mastery. In the modern textbook "Technology and the methodology of its teaching, it is a special science" how many different instructions, recommendations, assignments, questions, tests and practical exercises are given [10]. These ensure the activation of elementary school students and their solid acquisition of knowledge and skills, develop their professional interests, and form the skills of independent work in production conditions. In didactics, they are also called the methodological apparatus of the textbook.

Visual materials. Special attention should be paid to the formation of visual materials of educational literature. In the educational literature, diagrams, graphs, tables, structures, pictures and maps were used for understanding and updating the content of the educational material. Visual materials should be clearly visible [11, 12].

The following requirements are imposed on the visual materials formed during the creation of educational literature:

The conducted studies have shown that the visual material of the textbook reveals its content in a unique way, visually describes the studied object and facilitates the understanding of the technological process.

Questions and assignments through visual materials allow students to activate their thinking skills. All of the above allows us to conclude that providing the textbook,



which is one of the main teaching tools, with visual materials increases the intellectual level of students. Some authors do not pay much attention to the importance of visual materials in the educational process and do not fully use them. Therefore, the selection of visual materials is more random and does not take into account the scientific principles of visual materials.

CONCLUSION

Thus, the main goal and driving force of the innovations and reforms in the field of education implemented in the Republic is man, his well-being, realization of personal interests, provision of his conditions, and we feel his responsibility, independence, hard work, freedom, creativity, formation of qualities such as entrepreneurship, business, education in the spirit of discipline, friendship, solidarity, loyalty to the motherland, creation of a new generation of educational literature and its implementation will allow us to achieve our ultimate goal.

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