

## SELECTION OF EDUCATIONAL MATERIALS FOR THE DEVELOPMENT OF STUDENTS' INFORMATION COMMUNICATION SKILLS AND THEIR ENCOURAGEMENT

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### ABSTRACT

In the given article was given effective use of learning materials, selection, systematization of teaching materials, and their didactic characterization in the development of information competence process of elementary school pupils.

**Keywords:** Competence, learning materials, innovation activities, young generation, innovation activity, quality of education, evaluation programs, pedagogical research.

### INTRODUCTION, LITERATURE REVIEW AND DISCUSSION

The development of information competence of primary school students is directly linked to the selection and systematization of learning materials. After all, the learning material is structured and systemized information that is specifically required by pupils [6, p. 12]. The development of science and education, and increasing flow of information, incorporation of learning materials into the content of education requires modern approach, combining national and international experience.

Resolution of the Cabinet of Ministers of the Republic of Uzbekistan on the organization of international research in the field of education quality assessment, establishment of international relations, comprehensive support and stimulation of research and innovative activity of students, above all, creative ideas and creativity of young generation Trends in International Mathematics and Science Study (TIMSS) - It is intended to ensure that pupils of secondary schools successfully participate in the assessment of the level of literacy of pupils in Mathematics and Science in the 4th grade. The resolution changes the content of general education institutions' Maths and Curriculum content based on the results of international studies in the field of education quality assessment, as well as curricula of higher education institutions preparing international mathematics specialists under the Ministry of Higher and Secondary Special Education of the Republic of Uzbekistan. In addition, according to the Roadmap for the preparation of the Republic of Uzbekistan for participation in the International Assessment Program studies, activities and forms to be implemented are identified. It is planned to create textbooks and teaching-methodical complexes for studying of integrated mathematics on the basis of international evaluation programs [1].

The primary source of learning materials in primary education is textbooks. Textbooks have been specifically mentioned as the most important source of research and academic literature for students to work with information. For example, textbooks have been used as the main source of information education in the educational process [4, p. 112].

Improvements in the content of textbooks will be based on the selection and systematization of teaching materials, primarily in the textbook. Selection of information for training – is defining

the volume and amount of information that will be used to solve and solve a problem. This process will allow for the conduct of pedagogical research and the formation of information collections for educational work and the creation of appropriate information systems for educational and educational processes. It is a solid scientific and methodological basis for the selection of information and creation of effective methods for teaching, creation of modern and promising options for teaching new processes and phenomena based on new information technologies [7, pp. 417-418].

In turn, the systematization of selected information as learning materials ensures its assimilation. "The teaching material systems are reflected in the material or material models of didactic material and intended for using in teaching activities" [3, p. 159]. Therefore, the selection and systematization of teaching materials are key factors that determine the quality of education.

The effective use of information in the learning process as a learning material is due to the following factors:

1. Analysis of information in the selection of educational materials. As mentioned earlier, the content of the training material should be incorporated into the latest scientific knowledge, but it is important to analyze information that is selected as the learning material. Analysis of information in education – is to define the content, form and content of information in education, setting criteria [7, p. 418]. In addition, it is important to determine whether information can be accessed when presenting, transmitting, or solving a research problem;

2. Information processing as a learning material. "The teaching material is a source of information and... is "customized" by students for learning" [5, p. 16];

3. Information provision of the educational process, as well as the possibility of continual updating of information on cyclical processes: process of regular (continuous) receiving or transfer of information constitutes the content of education. Providing the necessary information about the process of developing information competence among pupils of elementary school will ensure the effectiveness of this process. Provides opportunity to allocate and process the received information into systems (partition systems) and to implement algorithms for transferring the desired purposes;

4. The basis for effective using of information provided as learning material is the understanding of the content. It helps students to understand the meaning and function of information and to apply it appropriately throughout their lives.

In the scientific literature it is noted that the initial stage of the educational process is characterized by the collection of information within the subject matter [6, 49]. It is well-known that the first stage of general secondary education – are the subjects taught in elementary education (grades I-IV) are propedeutic material for the various disciplines. In other words, these disciplines are based on a rigid algorithm, which is studied at a lower level to a specific goal. In particular, elementary school mathematics is a propedeutic material for such subjects as algebra, geometry, physics, and computer science.

The elementary school Maths and Mathematics textbooks were studied and concluded: In elementary school math classes use text information, numerical information, and visual information (images, tables, graphs, diagrams). This will allow you to:

- it is important that the learning material be acquired in practical skills. Using of visual information (images, tables, graphs, diagrams) along with textual information and numerical information provides visibility and brightness of the learning material. Memories of pupils of

elementary school are more visual and figurative, and the visual representation of learning materials is important.

- allows the simultaneous use of different types of information in an integrated form (linking or depicting objects with models) or transferring one type of information to another. After all, "information competence is ... performing analytical-synthetic processing of information" [2, p. 45].

In the elementary classes, Mathematics program is responsible not only for the content, but also for the location of the learning material, in order to create the most favorable conditions for the formation of necessary generalizations. The analysis shows that in the elementary grades, Mathematics curriculum is linear and concentrated, and linear structure is the logical sequence of the material in the program. For example, linear construction with respect to arithmetic can be: numbering, addition, subtraction, multiplication, and division of multi-digit numbers. The elementary math course concentrates on the arithmetic material. Program concentrates: decimal, hundreds, thousands, multi-room numbers. In addition, when grouping materials, it is important to consider the interconnected concepts, practices, issues, comparisons, identities and differences of the facts under consideration, and time to examine them in order to open the existing links between them.

To summarize, "learning material" is one of the main components of the educational process, improving the content and quality of teaching materials in the development of teaching materials based on the competence-based approach of modern science and technology, effectively implementing international best practices in this field. Teaching materials provide the most basic information in the learning process. It is therefore the most important source of information in developing students' competence to work with information.

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