

## THE IMPORTANCE OF THE HISTORY OF SCIENCE AND TECHNOLOGY FOR PATRIOTIC EDUCATION OF STUDENTS

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In order to develop Ukrainian statehood, civil society, and promote the integration of Ukraine into the world and European community, in the situation that has developed in our country, namely the open military attack of Russia on Ukraine, the question of the importance of patriotic education of students is especially relevant.

During the period of martial law, more and more attention is paid to the patriotic education of the younger generation. It is worth mentioning the statement of I. D. Bekh, who noted that patriotism is an urgent need of the state, which is necessary for all young people to become nationally conscious - patriots who are able to provide the country with a worthy place in the civilized world, and an individual who, by his actions, strives to achieve reciprocity and preservation of individuality, and a society that is interested in patriotic consciousness being based on a moral basis [1].

The main tasks for conducting our research are: to get acquainted with the importance of science and technology for the patriotic education of students. To investigate how mathematical knowledge helps to conduct the tactics of military operations, in particular, their simulation. To determine the importance and relevance of the application of mathematics in the patriotic education of youth.

The history of science and technology is one of the effective means of development of the main drivers of the state's economy, and has many facts and examples that contribute to the education of both a specialist in his field and a patriotic citizen who cares about the fate of his state.

The question of the importance of the history of science and technology for the patriotic education of students has not yet been given due attention, therefore, mathematical education cannot be reduced only to the transfer of a certain amount of knowledge to students. The teacher faces another, no less important task - the realization of the possibilities of his subject in the development of the student's personality. In pairs of mathematics, patriotic education is carried out with the help of four factors:

- through the content of education;

- through methods and forms of education;
- through the use of specially created educational situations;
- due to the personality of the teacher himself.[2]

Mathematics is a rather abstract subject. Therefore, it is quite difficult to use it as a tool for patriotic education of students. The substantive part of the subject cannot be propaganda of the beauty and greatness of the native country. But the techniques and methods of presentation and assimilation of mathematical knowledge consist in giving a patriotic focus to a whole range of historical information. This technique, in addition to the impressive power of influence, is especially valuable because it significantly increases the interest of students in the history of mathematical science and in the subject itself.[3]

Modern possibilities of the Internet and software improve and diversify the methodology of teaching mathematics. The use of information and communication technologies in pairs is a modern tool that allows students to show their knowledge, creativity and curiosity; forms the skills of self-education and search activity.

The history of science and technology is one of the effective means for this, because the development of science and technology is one of the main drivers of the state's economy, and has many facts and examples that contribute to the education of both a specialist in his field and a patriotic citizen who is not indifferent to the fate of their country.

Patriotism is a complex and multifaceted concept, which is considered from philosophical, sociological, cultural, historical, and psychological and pedagogical positions. The analysis of different approaches to the interpretation of the concept of "patriotism" in Ukrainian literature was made by M. M. Kachur [4]. Scientists interpret patriotism as: a quality of personality; a set of ideas, beliefs and actions; social and moral principle; unity of feelings, beliefs and activities; abilities and needs of the individual; belonging to a certain ethnic group, etc.

A mathematical service for future soldiers, aims to tell about the application of mathematics in military service. Students should know that a solid knowledge of the subject is necessary to master the basics of military technology, military art, many professions that are needed in the army, which will ultimately help us move successfully towards victory. An effective means of military-patriotic education in the process of teaching mathematics is the solution of relevant tasks. Mathematics makes it possible to model combat actions, and therefore to reveal at least the main connections in the processes of conducting an armed struggle.

Historical and biographical facts from the lives of mathematicians can make a significant contribution to instilling in students the rules of behavior and norms of relationships. Disclosure of the role of Ukrainian scientists in the development of world science, familiarization with their worldview and social activities in the

process of teaching mathematics contribute to the education of morality and patriotism. It is very important for a student to have a worthy role model. Life and scientific heritage of V.Ya. Bunyakovsky, G.F. Voronnogo, M.P. Kravchuk (who, by the way, worked under the slogan "My love is Ukraine and mathematics"), V.Y. Levytskyi, M.O. Zarytskoho, A.M. Samoilenko and other scientists are able to evoke a sense of dignity for their Motherland with their creative biography.

The importance of the history of science and technology for the patriotic education of student youth lies in the fact that this discipline helps to realize a number of educational tasks, in particular:

- promoting the acquisition of social experience by young people, the inheritance of the spiritual and cultural heritage of the Ukrainian people;
- maintenance of the best features of the Ukrainian nation — diligence, desire for freedom, love of nature and art, respect for parents and family, protection of the Motherland;
- creation of conditions for the development of civic activity, professionalism, high motivation to work as the basis of the competitiveness of the citizen, and therefore of the state;
- education of the ability to counteract manifestations of immorality, offenses, lack of spirituality, anti-social activity;
- providing conditions for self-realization of the individual in accordance with his abilities, personal and social needs and interests.

Having analyzed all of the above, we can say with confidence that patriotic education based on pairs of mathematics is real and possible. Mathematics occupies a special place in the patriotic education of young people and contributes to the formation of a conscious citizen who loves Ukraine, his people and is ready to build a new, unbroken democratic state.

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