SOME PECULIARITIES OF TEACHING ESP TO STUDENTS OF MATHEMATICS

Kuznietsova Galyna

Odesa I. I. Mechnikov National University

The process of learning mathematics and English requires special attention. As a rule, English is taught on traditional material taken from History, Literature, Art, Geography and Astronomy, Medicine, and very rarely on materials taken from Mathematics, Physics, and Chemistry. Although it should be noted that the terminology of applied sciences enriches the vocabulary of students. In addition, at the initial stage of training, it is difficult to give students the concepts of the Present Indefinite and continuous time, but performing algebraic operations is simple and understandable for them.

Psychologists say that working with numbers develops a good memory. Many modern memory simulators use exercises with numbers, which, along with mechanical memorisation of English words, leads to good results.

The similarity of studying mathematics and English as subjects of the curriculum should also be noted. When studying Algebra, Geometry, and Trigonometry, it is necessary to memorize many formulas, rules and laws, forms necessary for mathematical operations and their interaction with each other. When learning English, it is necessary to learn the order of words in a sentence, that is, the same formula, for example, the same Present Continuous: I am + verb(1) + ing, as well as many rules and language forms necessary for fluent English.

The relationship between the study and use of Mathematics and the English language is traced. Mathematics enriches the vocabulary and semantics of the English language through new forms and methods of its use, knowledge of mathematics improves the activities of pupils and students in such areas as programming, construction work and architecture, modeling of various production and other processes, astronomical calculations and sophisticated, geographical searches that are carried out in English with the help of computer technology, many computer games with a mathematical slant, as well as using modern intellectual technologies.

Modern education is becoming more and more integrated in nature, when technical educational material, in our case Mathematics, Applied Mathematics, is taught in English. It means that there is a study of the subject of science and the simultaneous replenishment of the vocabulary of education seekers, as well as the acquisition of speaking skills of the modern English language. Thus, when studying Astronomy and Geography, education seekers memorize the astronomical data of the planet Earth, the location of the planets and their names, calculate the coordinates of astronomical bodies and planets, get information about their physical and chemical properties, when studying Geography, they memorize the names of continents, countries and cities in the English language, produce calculations of mineral deposits, distances between cities, routes of travel and process the necessary material on the proposed topics. With this approach, education seekers easily learn new terms and words in English, expand their vocabulary, learn to operate with mathematical data and their presentation in English. It should be taken into account that such a process requires from education seekers to have a good level of knowledge of the English language, as well as professional vocabulary and terminology.

Undoubtedly, computer games play a major role in the initial stage of education seekers' education. To participate in computer games, they learn the necessary simple mathematical terms such as "add", "minus-plus", "equality", "divide", "multiply", fractions. The games can be very diverse - from the battle of spaceships, and the student must calculate the orbit of the ships, their height and speed, maneuverability in order to knock down the ships to racing yachts, when the player in the process of multiplication receives the correct answer and his yacht moves to a higher place in sailing ship race.

Mathematicians themselves communicate with each other in the mathematical language of formulas and numbers, fully understand each other, and it seems that this is quite enough for obtaining mathematical information and understanding the beauty of a mathematical thought and the accompanying explanations, but there comes a time when mathematicians need to convey the results of their work and the essence of the performed mathematical calculations to a wider audience, to share their ideas with

specialists in related fields of science and the general public, publishing publications and holding discussions on the proposed mathematical topics and problems. That's when the need arises to use the English language as a means of international communication.

The most important thing for mathematicians who study English is an impeccable command of the mathematical terminology of all sections of mathematics, starting with the simplest terminology, such as "integral", "function", "equality", "multiplier", etc., which can be used both as mathematical terms and as ordinary words of ordinary English text in order to avoid confusion due to the semantic properties of English words.

I especially want to note the need for pupils and students to be able to read mathematical texts, both mathematical literature and texts of scientific publications in English, printed on the pages of periodicals.

It is also important to be able to write mathematical documents, articles and mathematical studies, that is, to present mathematical ideas in writing.

Students should remember multiple meanings of mathematical terms and used English words that can have two or more meanings. In this case, the decisive factor is the mathematician's accurate understanding of the mathematical term and good knowledge of the semantics of the English language, i.e. the multiple meanings of English words, for example, the word "set" has more than 123 meanings in English depending on the context.

It is also possible to give as an example the mathematical term "function", that is, "function", which in the mathematical world is understood as a mathematical dependence between two sets, but in literary English the word "function" can mean "goal" or any social action.

Globalization processes and integration into the European educational process are one of the most important directions of education development in our country. Improving the quality of education in mastering foreign language communicative professional competence is a very important stage on this path.

ЛІТЕРАТУРА

1. Vlasenko, K. (2018). About preparation for teaching mathematical disciplines in English by the Department of Higher Mathematics of the State Academy of Medical Sciences.] Materials of the international scientific-methodical Internet conference "Problems of mathematics education: modern challenges". Retrieved from https://conferences.vntu.edu.ua/

2. Гуліч О. О. Англійська мова для фізико-математичного напряму: метод. рек. для здобувачів вищої освіти першого (бакалаврського) рівня фіз.-мат. напряму за спец.: 014.04 Середня освіта (Математика), 014.08 Середня освіта (Фізика), 014.09 Середня освіта (Інформатика) / О. О. Гуліч; Харків. нац. пед. ун-т ім. Г. С. Сковороди. Харків: Мітра, 2020. 86 с.

3. Karupu, O. V., Oleshko, T. A., Pakhnenko, V. V. (2012). Some peculiarities of teaching mathematical disciplines to foreign students. Eastern European Journal of Advanced Technologies, No. 2/2 (56), C. 11–14.