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ORGANIZATION OF A MIXED LESSON IN COMPUTER SCIENCE

Abstract. Trilingual education, the updated education program and its effective and ineffective sides, innovative technologies, the ability to apply them to the lessons of the modern updated program, the integrated lessons, the best ways of integrated learning in computer science, CLIL technology and its importance. Computer science-the field of science that studies the patterns, methods, methods of obtaining, storing, converting, transmitting and using information using a computer and other technical devices. Informatics studies the collections of the new technologies. Information technologies develop from year to year. Teach it to the younger generation in the hands of young professionals. This paper discusses the creation of a trilingual education system, innovative technologies, integrated lesson and CLIL technology.

Keywords: trilingual education, updated programm, integrated lessons, CLIL technology, WebQuest.

Аннотация. Трехязычное образование, обновленная образовательная программа и ее эффективные и неэффективные стороны, инновационные технологии, возможность применять их к урокам современной обновленной программы, интегрированные уроки, лучшие способы интегрированного обучения в области компьютерных наук, технология CLIL и ее значение. Информатика - область науки, которая изучает закономерности, методы получения, хранения, преобразования и передачи информации с использованием компьютера и других технологических устройств. Информатика изучает коллекции новых технологий. Информационные технологии развиваются из года в год и преподавание молодому поколению в руках молодых специалистов. В данной работе рассматривается создание трехязычной системы образования, инновационных технологий, интегрированного урока и технологии CLIL.

Ключевые слова: трехязычное обучение, обновленная программа, интегрированные уроки, технология CLIL, WebQuest.

Аңдатпа. Үш тілде білім беру, жаңартылған білім беру бағдарламасы және оның тиімді және тиімсіз жақтары, инновациялық технологиялар, оларды заманауи жаңартылған бағдарлама сабақтарында қолдана білу, информатикадағы интеграцияланған оқытудың жақсы тәсілдері, CLIL технологиясы және оның маңызы қарастырылады. Информатика - компьютерді және басқа да техникалық құрылғыларды қолдану арқылы ақпаратты алудың, сақтаудың, түрлендірудің, таратудың және пайдаланудың заңдылықтарын, әдістерін зерттейтін ғылым саласы. Информатика жаңа технологиялар жиынтығын зерттейді. Ақпараттық технологиялар жылдан жылға дамып келеді, сол себепті жастарға үйрету жас мамандардың қолында. Бұл мақалада үштілді білім беру жүйесін, инновациялық технологияларды, интеграциялық сабақ пен CLIL технологиясын құру туралы айтылады.

Түйін сөздер: үштілді білім, жаңартылған бағдарлама, интеграциялық сабақтар, CLIL технологиясы, WebQuest.

Introduction

The strategic program Kazakhstan-2030 is characterized by the consolidation of the education system of the Republic of Kazakhstan in the world educational space. Currently, our mother tongue is the state language, the official language of communication is Russian, and English is a requirement of time, during which new ideas are actively used at each lesson and optimal ways of new learning are found. To date, the paradigm of learning has changed. Updated content of education. In this regard, teachers have a task-to constantly update the methods and techniques of teaching and to master the technologies, effectively use them. As for the specifics of the updated program, the evaluation system has changed to a criteria-based evaluation system. In criteria-based assessment, student performance is measured against a set of pre-established criteria. Student performance will be assessed in two ways: formative assessment and summary assessment. Criteria assessment is applied in such developed countries as Finland, Singapore, Japan, Philippines, France. The advantages of the system of criteria-based assessment-develops the child's thinking, opens attention to science. The five-point rating system, which has been in place since Soviet times, will be eliminated. Integration is a necessary condition of the modern educational process, its implementation within the framework of any school transition to a new qualitative level of education of this school. The formation of key competencies allows to conduct computer science in English by the method of CLIL (Content Language Integrated Learning). The peculiarity of this teaching method is the language of the lesson

in two languages (native and foreign), that is, in different learning environments, corresponding to the objectives of training and the level of classes. The paper is organized as follows: Section II describes the trilingual education, the problems of trilingual education in Kazakhstan, in Section III, the updated program, in Section IV, the integrated lessons and technology CLIL. In conclusion, it was stated that the effectiveness of trilingual education, the application of CLIL technology at the present time.

Trilingual education

The planned transition to training in Kazakh, Russian and English languages will be carried out within the framework of the implementation of 79 steps of The national Plan “100 steps”. A plan of measures to promote trilingual education has been developed and approved. Today, multilingual education is successfully implemented in specialized schools "Daryn", Nazarbayev Intellectual school (NIS), innovative lyceums of education, etc. to monitor the implementation of trilingual education, it is proposed to determine specific criteria for the status of the organization of multilingual education.

For transition in three languages four subjects of the natural-mathematical direction are defined and training in the senior classes will be conducted in English. This is physics, chemistry, biology, computer science. Training in English is scheduled to begin in 2019. At the same time, the need for teaching staff is 15,773 people. For phased transition to trilingual education, the Ministry of education and science has strengthened the training to the current year subject teachers for teaching English and methods of teaching the subject in English [1][2].

English is the language of world business, and knowledge of English is the key to understanding the world for young people. Knowledge of English opens up unlimited opportunities for our young people. In the era of information technology, every day the English language boldly penetrates into the languages of the peoples of the world through new concepts.

The aim of the language policy in Kazakhstan is the integration of the Republic into the world community and, as a consequence, the growth of scientific, economic and socio-cultural components of the country. The introduction of a trilingual education system should ensure that Kazakhstanis become a competitive country on the world stage [3].



Fig. 1. Trilingual education

Effective and flawless sides of trilingualism. Either way to present an idea, supporters will be comments and opponents, and that's not what it's about. I gave a brief overview of what people will have an approach to trilingualism initiatives.

Thoughts and opinions Of the population of San press briefing dedicated to the highlighted. Some say that the introduction of trilingualism poses a threat to the cultural unity of Kazakhstan. People, indeed, are afraid that, having conducted lessons in a foreign language, pronounce the meaning of their language. National unity increases. Yes, Yes, indeed, the English language can not lead its table in the Kazakh land. Only the Kazakh language in Kazakhstan is to control power. The Trinity is a terrible image of many people. No! We should not be afraid of another language. On the contrary, using these languages, we must prove ourselves to others.

Another part of people believes that English is definitely important, but in this way, increasing the level of knowledge is not required. Russian and Kazakh languages should be promoted first of all, and then they should speak the language of “Foggy Albion”, as the Russians say. Learning English is very important. Because using this language form the relations of the advanced and advanced countries. It is the language of science and technology. Many studies

in Economics and business are conducted through it. Fluency in English leads humanity to a great future [4].

Updated Program

Updating the content of education is aimed at integrating modern educational trends and best practices of Kazakhstan education. Developed taking into account the recommendations of Kazakhstan teachers-practitioners and scientists in the development of training programs in the framework of updating the content of education. The purpose of education is to provide knowledge on the following basic broad skills:

- functional and creative application of knowledge;
- critical thinking;
- conducting research;
- use of information and communication skills;
- use of different communication methods;
- ability to work in a group and individually;
- creation of a favorable educational space for the harmonious formation and development of the student's personality, having problem-solving and decision-making [5].

Pedagogical approach:

- value-oriented;
- action;
- personality-oriented;
- circle;
- communicative methods and techniques are the main guidelines in the formation of the structure and content of educational programs in the discipline..

Students develop ICT skills in all subjects. In the process of searching and processing information, he exchanges ideas in the team, evaluates and improves his work, uses a wide range of different equipment and applications. ICT contributes to the development of students' knowledge and skills for their effective use. The training programs formulate the expected results in the form of a system of training goals. The daily educational process is focused on the achievement of educational goals and the formation of students' readiness for the creative use of knowledge and skills in any educational and life situations [6].

The Integrated Lessons And Technology CLIL

An integrated lesson is a special type of lesson that combines learning in several subjects at the same time while studying a single concept or topic.

The goal of an integrated lesson:

- from the point of view of education: obtaining quality system education in subjects;
- from the point of view of development: comprehensive development of students' personality;
- strengthening the ideological orientation of cognitive interests;
- from the point of view of education: a deep understanding of the relationship between science and art, the formation of a holistic worldview of the world, the formation of universal laws of the Universe.

The child as a participant of the integrated lesson:

- finds and uses various sources of information;
- is able to be critical and demonstrate the information received;
- on the basis of the received information sums up the results, can enter into discussion;
- learns to listen to others and takes into account their reasoned conclusions [7].

The peculiarity of integrated lessons is that the consideration of complex problems always requires the efforts of students seeking to achieve their goals, leads to the study and use of different approaches to their implementation, solution and research of various options for solving problem situations associated with changing circumstances-this contributes to the development of all mental activity. In case of failure or unproven dissertations presented in the course of classe, a wide range of knowledge in various disciplines is naturally absent. Develops logic, cognition and thinking through the basis of integrated lessons, definitions, various Sciences.

In the 2017-2018 academic year of the Ministry of education and science of the Republic of Kazakhstan, the gradual introduction of trilingual education will begin from the fifth grade. In the secondary education system from the first classes of the 2016-2017 school year, as part of the trilingual education, has increased the English language in one hour.

In order to implement the state program for the development and functioning of languages in the Republic of Kazakhstan for 2011-2020, it was established that since 2016, changes and additions will be introduced into the curricula of higher education for the conduct of English language courses at all stages of education, in 2020-2021, the subject of "Informatics" in English will be introduced in schools (by choice on the basis of a collegial decision of educational organizations). In this regard, starting from the 2017-2018 academic year, the work on teaching computer science will be fully organized in English.

Studying the subject "Informatics" in English allows our students to search for their own ideas and reach the international level. In the process of

learning the language, using the latest technology, you can develop pedagogically developed skills of writing, listening, understanding, speech. At a foreign language lesson, in particular, at English lessons, in deep use of multimedia - electronic means and presentations at English lessons in school walls and in educational process, problems of trilingual education are solved [8].

Therefore, it is necessary to develop a model for the formation of the communicative environment of future teachers of Informatics in English; to determine the pedagogical conditions; to develop a methodology for teaching subjects in English and to test its effectiveness in practice.

In my experience, we often use integrated lessons and consider them very successful. This article discusses the issues of integration in education, the concept of "integrated lesson and its application", the methodology of preparation and conduct of integrated lessons, the development of integrated lessons in computer science and English.

Integration of subjects in a modern school is a real need of time, necessary for all people interested in the formation of a fully developed personality. Conducting integrated classes for each teacher contributes to the growth of professional skills, as it requires him to master the methodology of new technologies of the educational process, carries out an approach to learning.

The formation of key competencies allows to conduct computer science in English by the method of CLIL (Content Language Integrated Learning). The peculiarity of this teaching method is the language of the lesson in two languages (native and foreign), that is, in different learning environments, corresponding to the objectives of training and the level of classes [9].

In European countries there are 4 main aspects of defining the basic principles of the methodological approach CLIL:

Content-content) - this knowledge, skills, skills, forming information competence in the subject of computer science. This is the information necessary for self-search, analysis, selection, processing and provision.

Communication(communication) - this training on lesson not studied foreign language, and on language, providing ownership foreign language. Thus, students use foreign learning to learn the lesson and learn how to use it. This aspect forms communicative competence and develops the ability of a person to communicate with other people, learns to listen carefully, ask questions, answer them, actively discuss the problems of interlocutors, give them explanations, critical assessment.

Cognition - forms intellectual abilities, contributes to the formation of educational competence, which allows you to successfully prepare students for one or more educational areas.

Culture - is a sphere of culture that helps to develop General competence, the development of the language of culture, the development of the language of culture, knowledge of the world, understanding and perception of alternative cultures, manifesting itself as part of culture.

The interface language of many computer programs, especially complex integrated and graphics packages are used in English. All high-level programming languages use English professionally [10].

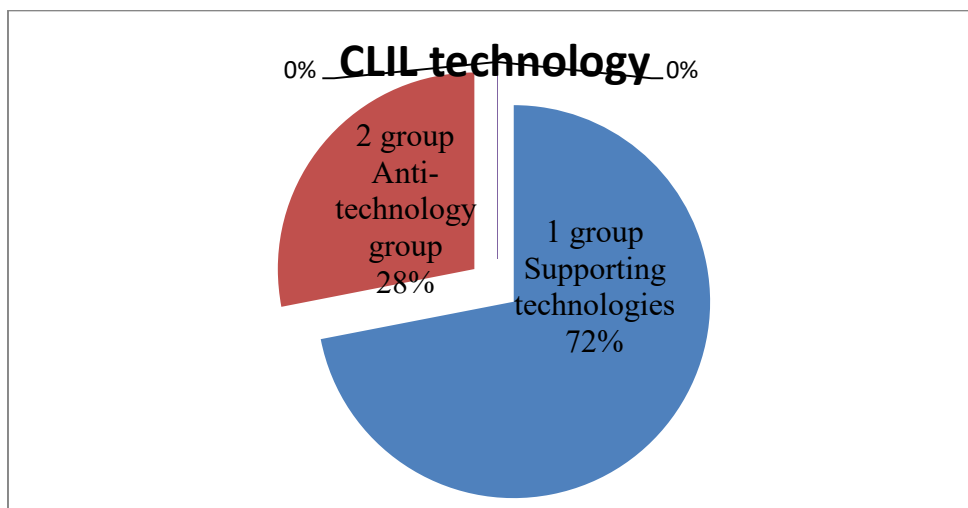


Fig. 2. Questionnaire about CLIL technologies

The diagram above is about the CLIL technology. When using this chart, I conducted a survey of teachers about new educational technologies. In the survey, 72% believe that this method is needed, 28% said that this method does not support.

When conducting an integrated lesson, you can use the CLIL WebQuest method. Assignments in computer science are issued in English, the results of the project tasks must be performed in English. WebQuest are problem tasks based on role-playing game elements.

For their implementation, information resources of the Internet are used. All this is explained by the fact that the teacher, making up the task, must collect information on the Internet, where to find information. WebQuest contains the following structures:

1. Introduction.
2. Task.
3. Process (job execution).

4. Evaluation (Assessment).
5. Conclusion.
6. Credits (References).
7. Teacher Page (questions asked to the teacher).

As an example, for an interesting lesson, students can prepare various tasks. Among them are rebus, crossword, identification, dictionary work, definitions, “polyglot”, tests, quizzes, etc.:

Helps. As the title says, during a new lesson, students are introduced to the new words of the term and give them a definition.

Question - the requirement of the interlocutor to obtain help, or a proposal that causes the interlocutor to inform his familiar listener. At the end of the lesson, students asked each other questions on the topic, answered them in Kazakh and Russian.

Rebus is a kind of riddle, an explanation of the meaning of hidden words. In accordance with a certain rule in the rebus will not only be a personal word, but also a proverb, quote, riddle, even a small story. In rebus words and phrases are displayed in the form of drawings, letters, numbers, notes and others, their number is not limited. The rebus solution is a whole science. By the end of the lesson, students, solving the puzzle, summarize the lesson.

Evidence in favor of rebus’s baby:

- contributes to the development of thinking;
- improves wit, logic, intuition;
- not only develops students’ horizons, but also learns new words, remembers new things.;
- teaches spelling correctly, develops visual memory.

The game given through words is called crossword. This is the most common game. The word Crossword consists of two words in English *crossword*; *cross*; *word*; - means the intersection in English, *cross*; *word*; - means the word. Thus, the phrase intersection is obtained.

Each letter is written separately, that is, according to the rules of the crossword each letter is located in its corresponding cell. In this game, the Teacher prepares hidden questions for new words prepared by the teacher on the topic of the lesson, and the students mark the answers to the crossword.

Game “Polyglot”. A polyglot is a person who speaks several languages. And in this game, students were divided into groups, competed with each other, find the identity of Kazakh, Russian and foreign words.

Identification. In this task words in Kazakh and foreign languages are scattered and mixed. To order words, students define a match.

Quiz questions. Quiz-a form of game in which the answer is given orally or in writing to questions in various fields of knowledge .The quiz basically

differs from each other in the position, composition and complexity of the question, the order of determining the winners, awarding in connection with the correct answer. Questions will be asked on pre-prepared questions.

Conclusions

In conclusion, on the basis of the trilingual educational program, we must accumulate experience in learning trilingualism and reach the world level. In order to educate people with a high level of spirituality, with a broad Outlook and a Mature worldview, it is necessary to educate the younger generation with a quality education and upbringing that combines the national spiritual Treasury with the best world thoughts.

The current state of computer information in the XXI century. With the help of satellite, the Internet and the Internet, every day, through the Internet, every day and every hour, to learn about the news and changes taking place on earth, the teacher does not just tell and listen to a new lesson.

With the use of information technologies is an Information culture. Information culture is a level of knowledge that allows a person to participate in the formation of the information space and freely navigate the space, to enter into information interaction.

First, through the conduct of non-traditional lessons can expand the horizons, knowledge, abilities of students. To use ways that do not give knowledge in a ready state, set certain tasks for students and solve them using elements of innovation. In doing so, they learn ways to properly solve a problem when a problematic situation arises. As a result, we educate creatively working citizens who are able to live independently.

Secondly, teaching students using computer technology in teaching and learning at a high level in accordance with modern requirements is a requirement of today. In developing training, special attention is paid to the organization of search and research activities of the child. To do this, the child must reach such a situation that he felt that his techniques, methods that he previously knew, are not enough to solve a new problem. After that, his desire to get an education increases, he strives to get an education.

Third, one of the most important of the new methods of education is the introduction of technology for the use of network resources to educate young people who possess modern knowledge, especially able to use them in life.

To give the child the opportunity to Express his thought, without hesitation, to feel freedom of opinion on him, increases the interest of students in this lesson. In addition, the use of technical means, visual AIDS during the lesson allows the teacher to save time, assess the knowledge of several students in a short period of time, which is the most effective way to control the level of

knowledge of students. After all, checking the student's knowledge-determining his capabilities-is the most important part of the learning phase.

An integrated lesson is not a goal, but a means of personality formation, introduction to a new type of thinking, broad opportunities for the implementation of new technologies.

The goal that I set as a future teacher is to educate students in national pedagogical education and education, as well as the development of their creative abilities. Therefore, the organization of the lesson on the basis of ideological scientific basis, connection with life, instilling interest in students, interest in knowledge, instilling in students at each lesson thinking skills, independent search, oral and written presentation of games, teaching the culture of speech.

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