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## THE USE OF INNOVATIVE COMPUTER PROGRAMS IN SPEECH THERAPY

Ne'matullayeva Mushtariy Laziz kizi  
Student of the Department of Speech Therapy,  
Kokand State University  
Tel: +998947722109

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### Abstract

This article highlights the importance, possibilities and effectiveness of using modern computer programs in speech therapy. Digital technologies help to organize correctional classes with children with speech disorders in a more interesting, interactive and demonstrative way.

**Keywords.** Speech therapy, speech development, speech disorders, computer programs, information and communication technologies (ICT), interactive educational programs, multimedia, articulation apparatus, sound automation, phonemic hearing, vocabulary.

### Introduction

In recent years, the development of information technologies has required a new approach in all areas of education. The use of computer programs, multimedia resources and interactive games is also very effective in working with children with speech disorders. These technologies allow for the effective organization of speech therapy classes, attracting the child's attention, faster development of speech processes and automatic analysis of errors. Therefore, the use of modern computer programs in speech therapy is recognized as one of the most convenient, effective and innovative methods today.

Currently, the use of information and communication technologies in the educational process is developing widely. In the field of speech therapy, modern computer programs are becoming an important tool in increasing the efficiency of working with children with speech disorders. Multimedia, interactive applications and special speech therapy platforms help to organize classes in an



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interesting, demonstrative and individual approach. Therefore, the introduction of digital technologies into speech therapy classes is one of the current issues today.

Modern information technologies have made great changes in the field of speech therapy, significantly increasing the efficiency of classes. Computer programs make speech therapy activities interactive, interesting and clearly planned. This accelerates the development process of children with speech disorders and increases their motivation for communication.

Computer programs offer special interactive exercises to automate speech sounds, develop phonemic hearing, and strengthen the articulatory apparatus. Visual and audio materials help the child learn faster.

Interactive games, animations and multimedia effects allow the child to perceive the lessons as a game. In classes with high interest, the child does not get tired, actively participates, and strives to complete the tasks. This contributes to the success of the therapy process.

Modern computer programs help to organize speech therapy classes in a more effective, interesting and individualized manner. The speech therapist uses these programs at different stages - in the diagnostic, correction, reinforcement and control processes.

When used in the diagnostic process, computer programs serve as a convenient tool for assessing the speech development of children.

The speech therapist uses the following capabilities:

tests that check sound pronunciation and phonemic hearing;

multimedia tasks that assess vocabulary;

interactive tests that measure attention, memory and speech response.

The program automatically saves the results, making it easier for the speech therapist to analyze them.

When performing articulation exercises, modern programs have animated articulation models. They visually demonstrate the movements of the tongue, lips, and jaw; allow the child to repeat the movement himself; facilitate the formation of correct pronunciation.

This method arouses interest in children and develops the articulatory apparatus.



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When using special speech therapy programs to teach correct pronunciation of sounds, they interactively perform exercises such as pronouncing sounds correctly, using sounds at the beginning, middle, and end of words, and connecting sounds with syllables. If the child makes an incorrect pronunciation, the program shows the error and allows him to repeat it.

Modern computer programs in speech therapy classes:

increase efficiency,

strengthen an individual approach,

maintain high motivation,

allow for precise control of results,

facilitate the work of a speech therapist.

Therefore, digital technologies are increasingly being used in the field of speech therapy as one of the modern, innovative and most effective methods.

The use of modern computer programs significantly increases the effectiveness of speech therapy classes. Multimedia, interactive games and special speech therapy applications create a comfortable, interesting and effective environment for eliminating speech defects in children. Classes through computer technologies are organized in a demonstrative, systematic and individual approach, taking into account the pace and needs of each child's development.

Digital programs also allow for quick monitoring of results, identification of errors, repetition and continuation of exercises at home. This strengthens the cooperation between the speech therapist, child and parent.

In general, the use of modern computer programs in the speech therapy process makes a significant contribution not only to the development of speech, but also to increasing the general psychological, intellectual and communicative activity of the child. Therefore, the widespread introduction of these technologies in speech therapy practice is one of the relevant and effective solutions.