



## FORMATION OF ALGORITHM UNDERSTANDING IN PRIMARY CLASS PUPILS

Axmedova Umidaxon

Teacher At The Department Of "Primary Education Methodology" At  
Fergana State University, Uzbekistan

### ABSTRACT

In this article, the formation of the concept of algorithm, the concept of algorithmic thinking in children during the process of completing tasks given to elementary school pupils in technological and mathematical subjects during the educational process is discussed.

**KEYWORDS:** Educational process, algorithm, algorithmic thought, algorithmic thinking, primary education, information technologies.

### INTRODUCTION

In our country, the attention paid to elementary school textbooks and the impact of changes in them on the educational process is known to a significant extent. Topics in primary school textbooks are becoming more and more complex. As a result, the school assigns a more responsible task to primary school teachers.

Information is the main factor affecting the formation of human thinking and thinking ability. Therefore, the development of modern civilized society is characterized by the process of informatization.

"Technological education is a type of education aimed at teaching pupils through modern technical tools and methods. Its main goal is to teach pupils to think creatively, solve problems independently and increase their technical knowledge. This article is dedicated to forming the concept of algorithm based on technological education".[1]

Kodirov J.A. In the article entitled "Methods of forming algorithmic skills in elementary school pupils", he noted that one of the most effective and convenient means of forming the basics of educational content in schoolchildren is the development of their algorithmic skills. "We understand algorithmic skills as the ability to elementaryly divide complex actions in the learning process into several steps."[2]

School-age pupils who have mastered algorithmic skills will have the ability to plan their actions step by step and continue the process of achieving the goal. Tasks of the integrated type in the application of algorithms in the activities of children of preschool and junior school age are an important means of sufficiently forming algorithmic skills.

Let's answer the question of what is algorithmic thinking. Algorithmic thinking is a sequence of problem solving process. That is, the method of calculation of a mathematical problem. It is not only a mathematical problem, but also a sequence of tasks in other subjects.

Abdugadirova P.T. In the first chapter entitled "Theoretical foundations of the development of algorithmic competencies in future teachers" in the Autoabstract of the Doctor of Science (PhD) "Professional training methodology through the development of algorithmic competencies in future teachers", in the future teachers He mentioned that preparation for professional

activities through the development of algorithmic competencies is a socio-pedagogical necessity and described the pedagogical foundations and stages of development of preparation for future professional activities.

According to the author, "the following factors are important in the development of algorithmic competencies in future teachers:

1. Deontological factors - which determine the high spiritual and moral development of pupils for future professional activities through the development of algorithmic competencies, demonstrate the pedagogical conditions related to the bright appearance of pedagogical tact (tact), enterprisingness in interpersonal relations, collective flexibility.
2. Acmeological factors determine the pedagogical conditions and laws regarding personal-professional maturity, specific features of professional development at different age periods, reflexivity and creativity, which ensure professional-acmeological development in preparing future specialists for professional activities." [3]

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