

TEACHING ELEMENTARY TEACHERS TO USE ACADEMIC CASE CLUSTERS IN THE SCIENCES

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ABSTRACT

Year 2020 of the Minister of Public Education of the Republic of Uzbekistan No. 335 of December 30 "On the approval of curricula for general secondary education institutions for the 2021-2022 academic year" and No. 298 of the Minister of Public Education of December 9, 2020 "Approval and trial of the preliminary draft of the National Curriculum of General Secondary Education" In order to ensure the implementation of the "testing" orders, starting from the 2021-2022 academic year, the National curriculum was developed in the 1st-2nd grades of secondary schools. Therefore, the introduction of the national curriculum to general education schools has set a number of tasks across the organization of the inclusive education process.

KEYWORDS: *Organization, Institutions, Approval, Preliminary, Implementation, Curriculum.*

INTRODUCTION

Because there was a need to give methodical recommendations to teachers in order to ensure that the requirements provided for in the national curriculum are mastered by children with disabilities as well as healthy students. For this purpose, in parallel with the preparation for using the national curriculum in the course of professional development courses, attention was paid to the issue of preparation of educational tasks suitable for students with disabilities. In our study, the preparation of teaching tasks from subjects based on the national curriculum was called academic case study. Because the reason why they are called academic cases, the content of each assignment is structured from simple to complex. Through "academic cases", a set of didactic handouts was created that allows a disabled student to refer back to the acquired knowledge before the given task, if he or she is unable to complete the given task at the moment.

What do academic cases contribute to inclusive education?

- 1. The minimum requirements that students should know in subjects are defined. For each lesson, teachers select the assignments on purpose.
- 2. The motivation to complete tasks increases. Students are regularly encouraged to complete assignments.

- 3. A didactic opportunity is created for parents to engage with their children. Parents are effectively involved in inclusive education.

Academic cases are the minimum requirements that students should master in subjects. As soon as the teacher, who is working on the assignment of the 4th grade, notices the difficulty of the student, he turns to the cluster of cases. A level gives the student a task based on an easier task structure. This assignment is either included in the textbook recommended for use in this school year for this grade, or is given in textbooks for lower grades. Therefore, it is a pedagogical condition that primary school teachers prepare cases for each student together with a speech pathologist. Preparation and use of these cases were taught to teachers separately. The composition of academic cases from subjects mainly included the preparation of study assignments, dividing each topic into certain parts. Below are examples of academic case assignments in mathematics, mother tongue and reading literacy, and natural sciences.

1. Solve the problem based on the picture. There were 6 fish in the aquarium.



again

added.

How many fish were in the aquarium in total?

$$6 + 3 = \boxed{}$$

2. Find the correct option from the following expressions?

$$3 + 2 = 7$$

$$1 + 2 = 3$$

3. Which of the given expressions below produces 7?

$$1 + 6$$

$$0 + 8$$

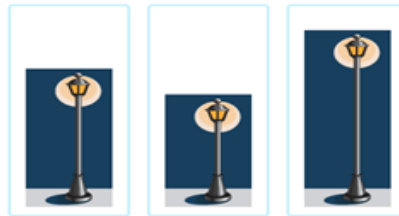
$$4 + 5$$

$$7 + 1$$

4. In which picture, the value of the expression is $4 - 2 = 2$?

As can be seen from the assignments, it is suggested that the teacher should address the disabled student in a short period of time. This action is not that difficult. Because an additional task is given based on the pictures in the textbook.

A sample of cases prepared based on the theme "Length of things": Select the smallest luminary.



Recommendation to the teacher: Use handouts prepared in advance by the defectologist when completing assignments. For this, he gives a didactic briefing to the defectologist in advance. When comparing things, the concepts of thick-thin, thick-thin, long-short, big-small are explained on the basis of pictures.

2. How many cubes is the length of the brush?



3. Which one is heavier?



In these pictorial tasks, the student with disabilities can feel which one is bigger while holding his hand while moving his hand. In this way, an opportunity is created to explain the concepts of big and small, heavy and light to the disabled student. This approach demonstrates the use of variable approaches by students.

"Working with data. Tasks on the topic "Tables".



From the practice, it became clear that it is easier and more convenient to interest children with disabilities in tabular and pictorial problems than in text problems. In particular, he encouraged students with disabilities to explain and solve the problem in the table below.

1. Sevara and his friends went to pick pumpkins and flowers. They saw these things.



Which chart is the correct one as they see it?

Sunflowers							
Pumpkins							

Sunflowers							
Pumpkins							

Assignments on the topic "Making a whole from parts, parts from a whole".

Explaining the share through pictures to children with disabilities was achieved. By dividing the objects in the picture into equal parts and giving one part to the student, you have one part, I have one part, and your friend has one part. So, the concept of "You are one of 4" was achieved. It was also suggested to explain this issue using bread or by dividing the picture of bread into those parts.

1. Which of the following shares is allocated correctly?



The above-mentioned academic cases are practical for families as well. Special approaches were required to control the performance of tasks from these academic subjects by students with disabilities as well as healthy students. These characteristics are reflected in motivational assessment of students' activities, results of work performed by them, skills of mutual and individual work in transparency, and most importantly, in a supportive attitude.

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