HOW TO PROVOKE A CHILD TO ACQUIRE NEW KNOWLEDGE?

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Annotation:

The article talks about some factors affecting the learning process. The author informs us of his opinion on how to concentrate the student's attention on the educational issue; Some samples from own practice are given

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Interest is one of the fundamental factors of learning, which is based on the inner drive to learn new things, and without which learning would be just a form of forced labor. It is the above-mentioned internal drive that directs our energy in a certain direction, it focuses attention on a matter of interest to us. That is, it concentrates our attention on the issue that is interesting to us.

How to attract a child's attention? Here it is necessary to take into account the fact that if the content of the material to be studied does not correspond to the level of the child's intellectual development, such material will not attract the attention of the student despite the teacher's efforts and, therefore, will not be able to arouse his interest. In order to awaken the child's curiosity and provoke him to acquire new knowledge, the teacher is forced to pack the educational material with the content appropriate to the child's age development. This is not an easy task, especially when teaching mathematics. How do teachers do it anyway? I would like to share with you some examples from my own practice.

It is known that the theme of fairy tales is especially relevant at the primary level of education. That's why tasks with the participation of characters from favorite cartoons are interesting for children. For example, during the study of axial symmetry in the 6th grade, the task about Snow White's dress, caused great interest, the content of which is as follows: «Once Snow White was invited by the prince of the neighboring kingdom to the fancy-ball. Snow White decided to wear a new dress to the party and went to the best tailor in the kingdom, but unfortunately, the tailor fell ill. Snow White was forced to order a dress for the apprentice. The apprentice tried very much to make the dress beautiful, he decorated it with a collar, cuffs, buttons, relief lines, but even so, the dress still did not come out beautiful. Snow White was very worried, she didn't know what to do with the dress».

Look at the picture (Fig. 1). In your opinion, what are the flaws/defects of the dress? Advise Snow White how to correct these mistakes; In your mind how will your option of correction the flaws change the dress? Present the model of the dress to the class.

As expected, the children experienced the flaws of the dress with Snow White, were fully involved in the lesson, had emotional outbursts, discovered all the flaws and identified ways to correct the flaws.

The area of a figure is quite a difficult topic for fifth graders. Therefore, in this case too, I decided to wrap the educational topic with stories based on the characters of the famous fairy tale «The Three Little Pigs». We started the lesson by reading the general part of the fairy tale, where it is told who the pigs were and how they decided to build houses. After that, I introduced them to the immediate task and gave them freedom of choice. I offer differentiated tasks for students of different levels of readiness.

I. Niff-Niffs house: Niff-Niff thought that the easiest and fastest way to build a house out of straw. He didn't ask anyone anything, got up and started working. His hut was already ready for the evening. The length and width of his house were 3-3 meters, and the height was 1 meter. The straw is tied into 10 decimeters long and 5 decimeters wide.

1. Calculate how many straw bales Niff-Niff needed to build a house;

2. What does Niff-Niff's house look like in your opinion? Draw or make a model of the house.

II. Nuff-Nuff's house: Nuff-Nuff tried to finish a boring and uninteresting job as quickly as possible. At first, like his brother, he wanted to build a house out of straw, but then he thought that it would be too cold in winter in such a house. The house will be more durable and warmer if I build it from branches and sticks. He did so. In the forest, he tied the sticks, each bundle was 14 dm long and 7 dm wide. He chose a high place, marked a rectangle 42 decimeters long and 35 decimeters wide, fixed the wedges in the ground every 70 centimeters, interlaced branches at a height of 14 dm, put the door made of reed branches in front, put dried leaves on the roof and in the evening the house was ready.

1. Calculate how many wedges Nuff-Nuff needed to build a house;

2. Calculate the amount of spent bundle of sticks.

3. What does Nuff-Nuff's house look like in your opinion? Draw or make a model of the house.

III. Naff-Naff's house: Naff-Naf

f decided not to wait for his brothers and build a house alone. He wheeled large stones of roughly the same size from the banks of the nearest stream, kneaded the clay and set to work. The cart can hold 10 stones or 16 kg of clay. Naff-Naff spent only four times a day collecting material, the rest of the time he was building. The dimensions of the house are: length - 6

meters, width - 4 meters, and height - 2 meters. The house was ready in a few days. It had one door and two small windows in the shape of a square, 40 cm in size, so that the wolf could not get in. The height of the doors was 16 dm, and the width was 8 dm. Naff-Naff did not forget the winter cold and built a large fireplace and the smoke rising from the chimney reached the sky.

Calculate the amount of material needed to build it if each stone is 40 cm long, 30 cm wide and 20 cm high. And 8 kg of clay is used to build 1 sq.m of wall. 16 pieces of tiles are used for 1 square meter of roof, and 20 pieces of stone and 32 kg of clay were used to build the chimney.

1. Based on the obtained results, prepare an estimate, which reflects the amount of materials spent on the house;

2. Calculate how many days Naff-Naff worked on building the house;

3. How do you imagine Naff-Naff's house to look like? Draw or make a model of the house.

Tasks related to the characters of famous works are popular not only among students of junior school age. So, for example, when teaching the signs of similarity of triangles, one of the lesson goals was to measure the distance to an inaccessible object. Before starting this topic, I instructed them to read Jules Verne's famous adventure novel «The Secret Island», Part I, Chapter Thirteen – «The Geographical Location of the Island», which tells how engineer Smith measured the distance to inaccessible places using the simplest means. It turned out that the majority had not read this ingenious work, and although they were very surprised at what this task had to do with mathematics, they performed it with pleasure. The next day, full of impressions, they came to the lesson and did not stop talking to each other, they themselves demanded to study the signs of similarity of triangles. The final lesson of the topic was held in the open air. Students used the studied material, performed the necessary calculations and measured the distance to several inaccessible objects.

As can be seen from the above examples, in order to provoke the child to acquire new knowledge, the teacher has to do a solid job. First of all, he should determine what can arouse the child's interest, then create a plot and load it with mathematical content. However, the satisfaction caused by the obtained result is the pleasant reward, which is why he does not spare his creative potential and is constantly in search of innovations, so that every lesson he conducts is interesting and memorable for each student.

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