

INDIVIDUAL EDUCATIONAL ROUTES FOR DEVELOPING ABILITIES OF JUNIOR SCHOOLCHILDREN

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The urgency of developing children’s abilities and talents, especially in mathematics, is very topical nowadays, since modern society is in need of extraordinarily creative and intelligent individuals. Training of gifted children is one of the conditions for exercising a person’s right for manifesting his or her individuality. Moreover, special training of such children allows solving basic tasks put forward by the Federal State Educational Standard of General Primary Education. The Standard requires modern schools to develop comfortable conditions for students with an account for their individualities (including individual features of gifted children).

When determining the criteria of mathematical talent and aptness, the author has applied one of the most well-known concepts developed by Joseph Renzulli. This concept of aptness suggests a three-circle model with the following main components: motivation, creativity and intelligence.

The author has carried out an experiment to identify mathematically gifted children in the Secondary School # 25 in Nizhnevartovsk. The experiment, which had two stages, was intended to identify mathematical talent among students of the 3rd grade. In the first stage the researcher tested the gifted students (R. Amthauer’s intellectual test to define the level of education and its profile), used a questionnaire to determine the motivation of school students (developed by N.G. Luskanova), a brief test for creative thinking (developed by P. Torrens), and a method of numerical series. During the second stage of the experiment, the researcher surveyed the class teacher and children’s parents (using the *Map of interests for younger students* and a method for determining children’s inclination, both techniques put forward by A.I. Savenkov).

The table given below shows the results of all tests and allows defining the students with the highest results in accordance with the applied techniques.

Table

Students with high test results:

Summary table

№	Student name	Teacher	Parents	3 rd grade students			
				Intellectual abilities	Motivation	Creativity	Arithmetic reasoning
1.	Pavel G.	+	+	+		+	+
2.	Egor I.			+	+		
3.	Vyacheslav M.		+	+		+	
4.	Ksenia S.				+		
5.	Vladislava L.					+	

6.	Anton K.			+			+
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Summarizing the results, one 3rd grader, Pavel G., has shown high results in all tests and surveys.

Considering that only one child has showed the signs of mathematical talent in this class, it is important to develop an individual educational route for this student.

An individual educational route includes objective, informative, technological, diagnostic and teaching aspects revealing the internal organization of the training process and insuring the continuous reproduction of the training elements.