

## ABSTRACTS

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### **FORMING STUDENTS' MATHEMATICAL CULTURE AS AN OBJECTIVE POINT OF INNOVATIONS IN SECONDARY EDUCATION**

The topicality of the issue of developing and forming mathematical culture of general school students in measuring innovative pedagogical activities of mathematics teachers is grounded. The features of understanding schoolchildren's mathematical culture, descriptions of its manifestations and directions of forming are exposed in the process of teaching mathematics.

Having a basic understanding of the mathematical culture basics encourages the development of both educational and learning motivation, critical thinking and creative skills; successful mastering of mathematical knowledge and skills, which, in their turn, facilitate learning other subjects, continuation of education, increases the opportunities of obtaining or changing jobs. It also takes into consideration age categories and individual characteristics, directions of society's development and its culture.

It is important to mention that encouraging students to develop their mathematical culture is not the task of mathematics teaching only. Mastering the elements of mathematical culture is a very important outcome for the education as a whole. It is interconnected with the fact that personal characteristics, knowledge, skills, and experience obtained by a student in the process of improving the mathematical culture influence their future life and the successful study process.

Secondary school fulfills its tasks by enriching the mathematical culture of students. Additionally, it forms a basis for improvement of the level of society's mathematical culture, and, in particular, for the better achievement of goals.

*Key words: mathematical culture, innovative activities, schoolchildren, general school.*