

Abstract

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In the dissertation we deal with the teaching of mathematics at secondary art schools. After examining the current situation, we set the goal of the dissertation. Our goal was to design and create materials focused on the constructivist teaching of mathematics at secondary art schools, to verify them in school practice and to study students' attitudes to the proposed method of teaching. To study students' attitudes toward our proposed materials and teaching methods, which are based on theories of constructivism, we conducted qualitative research. The research sample consisted of first-year high school students in the arts industry. We worked with the sample for almost half of the school year. Research data were obtained through participatory observation, semi-structured interviews, anonymous feedback from students, and interviews with teachers. Based on the research results, we assume that focusing the teaching of mathematics to problems with a real context and the inclusion of constructivist elements in teaching can positively influence students' attitudes to the mathematics.

Keywords: constructivism, real context, secondary art school