

ABSTRACT

The bachelor thesis deals with the exploration of the possibilities of using the abstract work of artist Karel Malich as a model for creating activities developing pre-math literacy in preschool children. The bachelor's thesis is developed in three main parts and the proposed activities build on previous works of similar focus. The theoretical part deals with the characteristics of the preschool child, his/her needs, as well as his/her developmental stages and cognitive psychology. Next, a mathematical perspective on the subject is introduced, the characteristics of the subject of pre-math literacy are presented, and finally, Prof. Karel Malich, his life and work are briefly introduced, with an accompanying chapter defining abstract art. The second part, methodological, defines the aims of the bachelor thesis, the tasks leading to the fulfilment of the aim, the research questions and the research procedure, which is qualitative. The third part, empirical, deals with the research itself. It includes the preparation of the research instruments and its conduct. Then, an analysis of each proposed activity as well as an overall analysis of the research and a final summary with didactic recommendations. The research took place in a kindergarten and was carried out with a total of eleven children between the ages of 5-6. The scope of the research was to verify whether the proposed activities based on selected works by Karel Malich develop pre-math literacy in the preschool child and whether the activities, based on each work, were designed appropriately for the preschool child.

KEYWORDS

Transformation, comparison, possibilities, line, shape, kindergarten, pre-mathematical literacy, disciplinary overlaps