



Active learning strategies for an effective mathematics teaching and learning

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ABSTRACT

Learning is an active enterprise, where three dimensions stand out, cognitive, social, and physical, and, in addition, not all students learn in the same way. Grounded on these ideas, this article reports a study that aims to understand and characterize the performance of pre-service teachers when experiencing active learning strategies during their mathematics classes. The participants were 48 future teachers of primary education (3-12 years old) that experienced paper folding, a gallery walk, and a math trail as active learning strategies. We followed a qualitative methodology, collecting data through observations, written productions, and photographic records. The analysis involved a qualitative and inductive approach resorting to content analysis. The results of the study show that the participants valued these experiences, due to their potential in the development of a diversity of mathematical concepts and abilities, and throughout them showed traits of cognitive, social, and physical engagement. Active learning provided collaborative work and mathematical communication enabling the emergence of different strategies to solve the proposed tasks. The participants were able to reflect and be aware of their ideas, mistakes, and difficulties, as well as of others, in a non-threatening environment, where movement was highlighted for not being a popular dimension in mathematics classes. Although more research is needed, the results encourage the use of active learning strategies as a valuable approach to teaching and learning.

Keywords: active learning strategies, visualization, problem solving, challenging tasks, teacher education

INTRODUCTION

Mathematics learning is largely shaped by the teacher and the tasks proposed, as well as the strategies used to convey them. Thus, the teacher must contribute to the development of students' mathematical understanding, creating opportunities for them to be challenged and engaged in high-level thinking, through a thoughtful choice of the strategies and tasks to use. This implies working inside and outside the classroom, in an active learning environment (Prince, 2004; Vale & Barbosa, 2020a), that addresses different types of thinking displayed by the students, engaging them in challenging tasks, desirably with multiple solutions, privileging hands-on activities, that motivate them to learn mathematics and work collaboratively. This paper presents a study carried out with pre-service teachers of primary education (3-12 years) that aims to understand and characterize their performance when experiencing active learning strategies in the teaching and learning of mathematics. Based on this problem, the following two research questions were posed:

RQ1. Which aspects of the three dimensions of active learning (intellectual, social and physical) can we identify in the participants?

Active Mathematics Teaching

Henning Andersen



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Activities for Active Mathematics Teaching Sol. E. Sigurdson, University of Alberta. Department of Secondary Education, 199? **What's Noteworthy on Teaching** ,1987 **On the teaching of mathematics, a paper** William Henry H. Hudson, 1893 Mathematics Teacher, Learning and Teaching PK-12 ,1919 **College Teaching** Paul Klapper, 1920 **Mathematics Teaching** ,1965 **The Mathematics Teacher** ,1920 **The Texas Mathematics Teachers' Bulletin** ,1920 **Progressive Education** ,1928 Vol 31 33 1953 54 1956 one issue designated as yearbook number *Constructing and Using a Measure of Teaching for Mathematical Proficiency* Douglas Lyman Corey, 2007 ... *The Teaching of Mathematics in the United Kingdom* Great Britain. Board of Education, 1912 *The American Mathematical Monthly* ,1924 Includes section Recent publications **Active Arithmetic** Henning Andersen, 1999-10 Focuses on the parts of arithmetic that can be taught to young children through movement music and drawing as taught in the Waldorf schools The Mathematics Teacher ,2007

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