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**Teaching mathematics in primary school in the light of the contemporary research**

***Abstract***

In the paper we are going to discuss some relevant research in the area of teaching and learning mathematics in primary school. Our interest will be focused on the key factors which favour children's understanding of mathematical concepts and we are going to present some new teaching approaches for learning some mathematical ideas. Our special attention will be devoted to solving mathematical problems in relation to teaching and learning of generalisation in algebra. We'll present some ideas how to incorporate some of the research findings into the existing teaching mathematics and try to encourage teachers to perform action research themselves in order to assess the effectiveness of these findings and to therefore take an active role in creating guidelines for improving quality in teaching and learning mathematics.