

ABSTRAK

Widyaningrum, Elfida Fetra. (2015). *Pengembangan Alat Peraga Pembelajaran Matematika SD Materi Penjumlahan dan Pengurangan Berbasis Metode Montessori*. Skripsi. Yogyakarta: Program Studi Pendidikan Guru Sekolah Dasar, Universitas Sanata Dharma.

Kata kunci: penelitian dan pengembangan, metode Montessori, alat peraga, penjumlahan dan pengurangan, Matematika.

Permasalahan pendidikan di Indonesia dapat terlihat dari prestasi belajar yang rendah. Permasalahan tersebut disebabkan karena pemilihan metode pembelajaran yang tidak sesuai dengan karakteristik siswa SD. Salah satu metode yang sesuai adalah metode Montessori. Metode Montessori merupakan metode yang mempersiapkan lingkungan belajar dan memanfaatkan benda sekitar untuk mendukung pembelajaran. Hal tersebut dapat dilakukan dengan menggunakan alat peraga. Akan tetapi, banyaknya alat peraga dalam pembelajaran belum teruji secara ilmiah. Permasalahan tersebut menjadi pertimbangan bagi peneliti untuk melakukan penelitian. Penelitian ini dilakukan di SD BOPKRI Gondolayu kepada sekelompok siswa kelas II tahun ajaran 2014/ 2015.

Jenis penelitian yang digunakan adalah penelitian dan pengembangan. Beberapa langkah penelitian mengadopsi model Sugiyono serta Borg dan Gall yang dimodifikasi menjadi lima langkah antara lain identifikasi potensi masalah, perencanaan, pengembangan desain, validasi produk, dan uji coba lapangan terbatas. Hasil dari penelitian ini adalah prototipe alat peraga Matematika berbasis metode Montessori berupa papan penjumlahan dan pengurangan.

ABSTRACT

Widyaningrum, Elfida Fетra. (2015). *Development of Elementary School Mathematic Learning Aid for Addition and Subtraction Based on Montessori Method.* A Thesis. Yogyakarta: Elementary Teacher Education Study Program, Sanata Dharma University.

Keywords: research and development, Montessori Method, material, addition and subtraction, Mathematic

Educational problems in Indonesia can be seen from low learning achievement that students reach. The problems are caused by the selection of inappropriate learning method which is not suitable with elementary school students' characteristics. One of the appropriate methods is Montessori method. Montessori Method is a method which prepares good learning environment as well as makes use of the objects found in surrounding environment to support learning. It can be conducted in the classroom by using learning aid. However, a vast number of learning aids have not been scientifically tested yet. The problems aforementioned have become the consideration for the researcher to conduct this research. It is done in BOPKRI Gondolayu Elementary School to a group of students of class II of academic year 2014/2015.

The type of research employed in this study is research and development. Some research steps adapt Sugiyono and Borg and Gall's model which are modified into five steps, namely identifying research problems, planning, product development, product validation, and limited field testing. The result of this research is a prototype of learning aid in a form of a board for adding and subtracting in Mathematic lesson which is created based on Montessori Method.

Results of this research have shown that the learning aid possesses some characteristics. Those are the characteristics of being interesting, being contextual, having gradation, having an auto-education feature, and having an auto-correction feature. This learning aid possesses is proven to have a very good quality with the average score of 3.73. From this result, it can be concluded that the learning aid is able to help the second grade students of elementary school to learn addition and subtraction.