

ABSTRAK

Widyaningrum, Theodora Dian (2017). *Pengembangan Alat Peraga Montessori Materi Perkalian Untuk Siswa Kelas II SD*. Skripsi S1. Yogyakarta: Program Studi Pendidikan Matematika, Universitas Sanata Dharma.

Sebagian besar guru SD di Indonesia masih kurang dalam memanfaatkan alat peraga dalam proses pembelajaran. Selain itu banyak guru yang masih menggunakan metode ceramah. Metode tersebut dirasa kurang sesuai dengan karakteristik anak SD. Metode Montessori menjadi salah satu pilihan metode yang sesuai karena dapat memanfaatkan benda di lingkungan menjadi alat peraga guna menjadi pendukung dalam pembelajaran. Penelitian ini dilakukan dengan tujuan mengembangkan alat peraga berbasis Montessori khususnya untuk materi perkalian dengan hasil 2 angka.

Penelitian dilakukan di SD Kanisius Tegalmulyo terhadap siswa kelas II tahun ajaran 2016/2017 dengan menggunakan jenis penelitian *Research and Development (R&D)*. Peneliti mengadopsi model Borg dan Gall serta Sugiono yang dimodifikasi menjadi 7 langkah yaitu, (1) penelitian dan pengumpulan data, (2) perencanaan, (3) mengembangkan produk awal, (4) pengujian lapangan awal, (5) revisi desain, (6) pembuatan produk, (7) uji coba terbatas.

Penelitian ini menghasilkan alat peraga papan perkalian berbasis Montessori dengan ciri: (1) menarik, (2) bergradasi, (3) *auto correction*, (4) *auto education*, (5) kontekstual. Kualitas alat peraga tergolong dalam kategori “sangat baik” berdasarkan hasil validasi dari ahli. Dapat dikatakan dengan menggunakan alat ini, ada peningkatan kualitas belajar siswa dari rata-rata nilai 70,7 menjadi 98. Sehingga alat peraga ini dapat dinyatakan layak digunakan dalam proses pembelajaran dan dapat dikembangkan pada tahap yang lebih luas.

Kata kunci: alat peraga, Matematika, metode Montessori, perkalian, penelitian dan pengembangan

ABSTRACT

Widyaningrum, Theodora Dian (2017). *Development of Montessori Teaching Aid for Multiplication for Grade II Students of Elementary School*. Undergraduate Thesis. Yogyakarta: Mathematic Education Study Program, Sanata Dharma University.

Most elementary school teachers in Indonesia have yet to accommodate visual aid in the learning process. In addition, many teachers are still using the lecture method. This method is considered as not fully appropriate with the characteristics of elementary school children. Montessori method has become one of the appropriate method which can be used because it utilizes objects in the surrounding to be used as teaching aids. This research was conducted with the aim of developing Montessori based teaching aid, particularly for 2 digits multiplication material.

The research was conducted in Kanisius Tegalmulyo Elementary School on second grade students in the 2016/2017 academic year and *adopted Research and Development* (R&D) study type. The researcher adopted Borg and Gall model and Sugiono model that were modified into 7 steps, namely, (1) research and data collection, (2) planning, (3) early product development, (4) initial field testing, (5) design revision, (6) product manufacturing, (7) limited testing.

This study produces Montessori based multiplication teaching aid with: (1) interesting, (2) graded, (3) *auto correction*, (4) *auto education*, (5) contextual features. The quality of the teaching aid is categorized as "excellent" based on the validation results of the experts. It can be said that by using this teaching aid, there is improvement of the quality of student learning from the average value of 70,7 to 98. Thus, this teaching aid can be declared as adequate to be used in the learning process and may be developed at a broader stage.

Keywords: aid, Mathematic, Montessori method, multiplication, research and development.