

ABSTRAK

PENGEMBANGAN MEDIA PEMBELAJARAN IPA SD MATERI AKAR
TUMBUHAN BERBASIS METODE MONTESSORI

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Latar belakang penelitian adalah belum adanya media pembelajaran yang konkret dalam proses pembelajaran pada materi akar tumbuhan. Permasalahan tersebut menjadi pertimbangan bagi peneliti untuk melakukan penelitian. Tujuan dari penelitian adalah (1) mendeskripsikan prosedur pengembangan media pembelajaran akar tumbuhan berbasis metode Montessori, (2) mengetahui kualitas media pembelajaran akar tumbuhan berbasis metode Montessori.

Metode penelitian yang digunakan adalah penelitian dan pengembangan (R&D). Model pengembangan yang digunakan adalah model Sugiyono serta Borg dan Gall yang kemudian dimodifikasi menjadi lima. Subjek penelitian adalah 10 orang siswa kelas V di SD N Demangan 1 tahun ajaran 2016/2017. Objek dari penelitian ini adalah media pembelajaran IPA berbasis metode Montessori. Instrumen yang digunakan dalam penelitian ini adalah pedoman observasi, pedoman wawancara, kuesioner dan soal tes. Teknik analisis yang digunakan kuantitatif dan kualitatif.

Lima langkah pengembangan yaitu potensi dan masalah, penyusunan rencana, pengembangan desain, validasi produk, dan uji coba lapangan terbatas. Media pembelajaran dikembangkan berdasarkan empat ciri khusus media pembelajaran berbasis metode Montessori: menarik, bergradasi, *auto-education*, dan *auto-correction*. Peneliti juga menambahkan ciri kontekstual dalam pengembangan. Hasil validasi media pembelajaran oleh ahli, menunjukkan kualitas media pembelajaran sangat baik, dengan rerata skor sebesar 3,85. Uji coba lapangan terbatas menunjukkan bahwa nilai *posttest* lebih tinggi dari *pretest*, dengan selisih rerata nilai sebesar 24. Dengan demikian, dapat disimpulkan bahwa media pembelajaran akar tumbuhan berbasis metode Montessori yang telah dikembangkan, memiliki kualitas sangat baik dan membantu siswa dalam memahami materi akar tumbuhan.

Kata kunci : Penelitian dan Pengembangan, Media pembelajaran, IPA, Akar Tumbuhan, Metode Montessori.

ABSTRACT**DEVELOPMENT OF ELEMENTARY SCHOOL SCIENCE STUDY
LEARNING MATERIAL FOR PLANT ROOT BASED ON MONTESSORI
METHOD**

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The background of this research was that there is no a concrete media in the learning process of plant root. These problems into consideration for researchers to conduct research. The aim of this research were (1) to describe the development procedure of plant root learning media based on Montessori Method. (2) To know the quality of plant root learning media based on Montessori Method.

The method used in this research is research and development method (R&D). The type that is used is the development type presented by Sugiyono (2015), and Borg and Gall (2010) which is modified into five steps. The subjects of this research are ten students of 5nd grade in the academic year of 2016/2017 in elementary school Demangan 1. The object of this research is the learning media of plant root based on Montessori method. The instruments used are the observation guide, the interview guide, the questionnaire, and the question set. The technique of data analysis that is used is quatitative and qualitative technique.

The five steps of development are potential problems, planning, design development, product validation, and limited field trial. That learning media is developed based on four characteristics of Montessori learning media: attractive, have gradation, auto-education, and auto-correction. The writer also added contextual in the development. The results of expert's validation on the learning media show that the quality of the learning media is great, with the average score of 3.85. Limited field trials indicate that posttest values was higher than pretest score, with the difference in the average value of 24. Thus, it can be concluded that the plant root learning media based on Montessori method that has been developed, has an excellent quality and it helps the students to understand the inner and outer plant root.

Keywords: *Research and development, Study learning, Science, Plant Root, Montessori Method.*