

ABSTRACT

THE DEVELOPMENT OF SCIENCE LEARNING MATERIAL BASED ON DISCOVERY AT LIGHT STUDY

By

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The aim of this research are to produce an interesting and a beneficial learning material based on discovery for the fourth grade of elementary school and also to know effectively can to increase their science learning's outcome. The method that used in this study is Reasearch and Development (R&D) method. The tools that used in collecting data are a questionnaire and multiple choice test. Data were taken from the population and sample in Central Metro 4th Elementary School, 5th Elementary School, and 6th Elementary School with the total number of students as much as 96 students. The data then analyzed by using Gain and t Test. The result from this research shows that the developed learning material is valid, interesting, and beneficial to the fourth grade of elementary school students and the developed learning material based discovery effectively can to increase their science of light study learning's outcome.

Key Word: Science, Learning Material, Discovery, Light Study, and Learning's Outcome

ABSTRAK

PENGEMBANGAN BAHAN AJAR BERBASIS *DISCOVERY* PADA PEMBELAJARAN IPA MATERI CAHAYA KELAS IV SEKOLAH DASAR

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Penelitian ini bertujuan untuk menghasilkan produk bahan ajar berbasis *discovery* yang menarik, mudah dan bermanfaat bagi siswa dan mengetahui efektivitas bahan ajar berbasis *discovery* untuk meningkatkan hasil belajar siswa. Metode yang digunakan adalah *Research & Development (R&D)*. Alat pengumpul data pada penelitian ini menggunakan lembar angket dan soal tes pilihan ganda. Sampel dan populasi penelitian dilakukan di SDN 4 Metro Pusat, SDN 5 Metro Pusat, dan SDN 6 Metro Pusat dengan jumlah seluruh siswa sebanyak 96 orang. Data analisis menggunakan uji Gain dan uji t. Penelitian ini menghasilkan produk bahan ajar berbasis *discovery* yang menarik, mudah dan manfaat bagi siswa kelas IV SD dan bahan ajar berbasis *discovery* yang dikembangkan terbukti efektif terhadap hasil belajar IPA materi cahaya kelas IV di SD.

Kata Kunci : Ilmu Pengetahuan Alam, Bahan Ajar, *Discovery*, Materi Cahaya dan Hasil Belajar