

ABSTRAK

Indiyarto, Yudha 2023. *Pengembangan Alat Peraga Lampu Tangga Satuan Ukuran (Lampu TASAKURAN) Untuk Materi Satuan Panjang Dan Berat*. Skripsi. Program Studi Pendidikan Matematika. Fakultas Sains dan Teknologi. Universitas PGRI Adi Buana Surabaya, Pembimbing: Hanim Faizah, S.Si., M.Pd.

Kata kunci: *Alat peraga pembelajaran, Lampu Tasakuran, Satuan ukuran panjang dan berat.*

Penggunaan bahan ajar yang konvensional dan tidak direncanakan atau di siapkan sendiri memungkinkan bahan ajar yang digunakan akan kurang kontekstual dan tidak sesuai dengan kebutuhan siswa, sehingga banyak orang yang masih kesulitan dalam menyelesaikan permasalahan matematika dan akhirnya menganggap bahwa matematika itu pelajaran sulit. Tujuan penelitian ini untuk mengembangkan alat oeraga pembelajaran yang bisa dijadikan sebagai alternatif dalam memilih bahan ajar bagi guru, jenis penelitian yang digunakan merupakan jenis penelitian pengembangan menggunakan metode 4D menurut Thiagarajan (1974). Model pengembangan 4D terdiri dari 4 tahap, yaitu pendefinisian (*Define*), perancangan (*Design*), pengembangan (*Development*), dan penyebaran (*Disseminate*). Berdasarkan hasil penelitian yang telah dilakukan diketahui bahwa alat peraga lampu tangga satuan ukuran (Lampu TASAKURAN) mendapat kategori “Valid” dengan skor rata-rata 3 (tiga) menurut validator materi, “Sangat Valid” dengan skor rata-rata 3,7 (tiga koma tujuh) menurut validator media, dan “Valid” dengan skor rata-rata 3 (tiga) menurut validator tes hasil belajar siswa. Dengan persentase hasil tanggapan atau respon dari siswa diperoleh rata-rata 69% yang berarti bahan ajar masuk dalam kategori “Praktis” untuk digunakan dalam pembelajaran, dalam proses uji coba siswa juga masuk kedalam kategori “Aktif” dengan persentase keaktifan belajar siswa sebesar 80%, demikian dengan tes hasil belajar siswa yang menunjukkan kategori “Tuntas” dengan persentase ketuntasan belajar keseluruhan siswa sebesar 62%.

ABSTRACT

Indiyarto, Yudha 2023. *Development of Learning Aids Ladder Lamp (TASAKURAN Lamp) for Learning Material Unit of Length and Weight*. Thesis. Mathematics Education Study Program. Faculty of Science and Technology. PGRI Adi Buana University Surabaya, Supervisor: Hanim Faizah, S.Sc., M.Pd.

Keywords: Learning Aids, Tasakuran Lamp, Unit of Length and Weight

The use of teaching materials that are conventional and not planned or prepared it self allows the teaching materials used to be less contextual and not in accordance with the needs of students, so that many people still have difficulty solving math problems and finally think that mathematics is a difficult subject. The purpose of this research is to develop learning sports skills that can be used as an alternative in choosing teaching materials for teachers, the type of research used is a type of development research using the 4D method according to Thiagarajan (1974). The 4D development model consists of 4 stages, namely defining, designing, developing, and disseminating. Based on the results of the research that has been done, it is known that the measuring tool for ladder units (TASAKURAN Lamp) gets the "Valid" category with an average score of 3 (three) according to the material validator, "Very Valid" with an average score of 3.7 (three point seven) according to the media validator, and "Valid" with an average score of 3 (three) according to the student learning outcomes test validator. With the percentage of responses or responses from students, an average of 69% is obtained, which means that teaching materials are included in the "Practical" category for use in learning, in the trial process students are also included in the "Active" category with a percentage of student learning activeness of 80%, so with the student learning outcomes test which shows the "Complete" category with a percentage of overall student learning completeness of 62%.