

**PENGEMBANGAN MEDIA PEMBELAJARAN VIDEO ANIMASI PADA
MUATAN IPA MATERI MANFAAT ENERGI MATAHARI KELAS IV
SD NO.1 MEKAR BHUANA**

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ABSTRAK

Penelitian ini dilaksanakan untuk mengembangkan media pembelajaran yang disesuaikan dengan kebutuhan siswa melalui penerapan model pembelajaran *problem based learning*. Pelaksanaan penelitian ini bertujuan untuk mengetahui rancang bangun, kelayakan serta efektivitas penggunaan media video animasi dalam pembelajaran IPA materi manfaat energi matahari kelas IV di SD No. 1 Mekar Bhuana. Model yang digunakan dalam pengembangan media ini adalah model ADDIE (*Analyze, Design, Development, Implementation, Evaluation*). Subjek pada penelitian ini diantaranya ahli rancang bangun, ahli isi, ahli desain pembelajaran, ahli media pembelajaran, ahli isi materi, dan siswa kelas IV SD No. 1 Mekar Bhuana. Berdasarkan penelitian yang telah dilakukan, diperoleh hasil berupa media video animasi yang layak dan efektif untuk digunakan dalam pembelajaran. Media video animasi yang dikembangkan dinyatakan layak dan efektif diterapkan dalam proses pembelajaran dibuktikan dengan uji kelayakan dari hasil uji ahli rancang bangun 92,5%, ahli isi 90%, ahli desain pembelajaran 88,33%, ahli media pembelajaran 92,33%, uji perorangan 89,17%, uji kelompok kecil 93%,. Sementara itu hasil perhitungan uji efektifitas berdasarkan hasil uji-*t univariat* diperoleh t_{hitung} sebesar 3,076 yang kemudian dibandingkan dengan nilai t_{tabel} pada taraf signifikansi 5% dengan $dk = 21$ adalah sebesar 2,079. Hasil menunjukkan bahwa $t_{hitung} > t_{tabel}$ ($3,076 > 2,079$), sehingga H_0 ditolak dan H_a diterima. Hal ini berarti rata-rata kompetensi pengetahuan IPA siswa kelas IV SD No. 1 Mekar Bhuana sesudah menggunakan media pembelajaran video animasi muatan IPA materi manfaat energi matahari lebih dari atau sama dengan KKM. Dengan demikian dapat disimpulkan bahwa media video animasi materi manfaat energi matahari efektif diterapkan pada muatan pelajaran IPA kelas IV di SD No. 1 Mekar Bhuana. Keefektifan penggunaan media video animasi juga terlihat dari peningkatan rata-rata kompetensi pengetahuan IPA siswa yang diukur melalui pretest dan posttest. Nilai rata-rata pretest sebesar 50,45 dan nilai rata-rata posttest sebesar 81,81.

Kata Kunci : Media Video Animasi, IPA

ABSTRACT

This research was carried out to develop learning media that is tailored to students' needs through the application of the problem based learning model. The aim of this research was to determine the design, feasibility and effectiveness of using animated video media in learning science material on the benefits of solar energy for class IV at SD No. 1 Bloom Bhuana. The model used in developing this media is the ADDIE model (Analyze, Design, Development, Implementation, Evaluation). The subjects in this research included design experts, content experts, learning design experts, learning media experts, material content experts, and fourth grade students at SD No. 1 Bloom Bhuana. Based on the research that has been carried out, the results obtained are animated video media that is suitable and effective for use in learning. The animated video media developed was declared feasible and effective for application in the learning process as proven by a feasibility test from the test results of design experts 92.5%, content experts 90%, learning design experts 88.33%, learning media experts 92.33%, test individual 89.17%, small group test 93%. Meanwhile, the results of the calculation of the effectiveness test based on the results of the univariate t-test obtained a tcount of 3.076 which was then compared with the ttable value at the 5% significance level with dk = 21 which was 2.079. The results show that tcount > ttable (3.076 > 2.079), so H0 is rejected and Ha is accepted. This means that the average science knowledge competency of fourth grade students at SD No. 1 Mekar Bhuana after using animated video learning media, the science content material on the benefits of solar energy is more than or equal to KKM. Thus, it can be concluded that the animated video media regarding the benefits of solar energy is effectively applied to the content of class IV science lessons at SD No. 1 Bloom Bhuana. The effectiveness of using animated video media can also be seen from the increase in the average science knowledge competency of students as measured through pretest and posttest. The average pretest score was 50.45 and the average posttest score was 81.81.

Keywords: Animation Video Media, IPA