

PENGEMBANGAN MEDIA ULAR TANGGA IPA SMP MATERI

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ABSTRAK

Penelitian ini bertujuan mendeskripsikan karakteristik media ular tangga IPA SMP materi tata surya, menganalisis tingkat validitas dan tingkat keterbacaan media ular tangga IPA SMP materi tata surya. Jenis penelitian ini adalah penelitian pengembangan *Research and Development* dengan menggunakan model pengembangan ADDIE (*Analyze, Design, Develop, Implement and Evaluate*). Pengembangan yang dilakukan dibatasi sampai tahap *Develop*. Tahap pertama yaitu *Analyze* dilakukan studi dokumen dan studi lapangan (penyebaran angket). Tahap selanjutnya yaitu *Design*, pada tahap ini dilakukan pembuatan rancangan awal atau *storyboard* media ular tangga dan instrumen penilaian produk. Selain itu, dilakukan pembuatan kisi-kisi penilaian ahli dan uji keterbacaan produk. Tahap terakhir yaitu *Develop* (pengembangan produk). Tahap ini dilakukan pengembangan produk, validasi oleh validator dan uji keterbacaan siswa. Validasi terhadap pengembangan media ular tangga IPA SMP materi tata surya yang dikembangkan dilakukan oleh dua orang dosen Prodi S1 Pendidikan IPA dan dua orang guru IPA SMP Negeri 4 Sukasada, uji keterbacaan dilakukan kepada 10 orang siswa kelas VII di SMP Negeri 4 Sukasada. Jenis data yang diperoleh adalah data kualitatif dan kuantitatif. Data hasil penelitian yang diperoleh dianalisis secara deskriptif. Hasil penelitian menunjukkan bahwa (1) karakteristik media ular tangga yang dikembangkan terdiri atas papan permainan, dadu, bidak, petunjuk permainan, kartu soal dan kartu jawaban, (2) tingkat validitas media diperoleh rata-rata nilai 4,33 yang menunjukkan kriteria sangat valid, dan (3) rata-rata hasil uji keterbacaan oleh peserta didik adalah 4,63 yang menunjukkan kriteria sangat terbaca atau sangat mudah dipahami oleh peserta didik. Berdasarkan hasil analisis uji validasi dan keterbacaan yang dilakukan, dapat disimpulkan bahwa pengembangan media ular tangga IPA SMP materi tata surya memenuhi aspek kevalidan dan keterbacaan dan perlu diuji kembali sampai pada tahap akhir pengembangan sehingga layak digunakan dalam pembelajaran.

Kata kunci: Media ular tangga, Model ADDIE, Tata surya

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ABSTRACT

This study aims to describe the characteristics of the science snake and ladder media in the SMP of solar system material, to analyze the validity and the readability of the SMP science snake and ladder media with solar system material. This type of research is research and development using the ADDIE development model (Analyze, Design, Develop, Implement and Evaluate). The development carried out is limited to the third stage, namely the Develop stage. The first stage namely Analyze, includes document study and field study (questionnaire distribution). The next stage is design, at this stage an initial design or storyboard of snake and ladder media is made. In addition, a grid of product readability tests was also carried out. The last stage is develop (product development). This stage is carried out by product development, validation by the validator and student readability tests. The validation of the development of the science snake and ladder media in the SMP of solar system material developed was carried out by two lecturers of the S1 Science Education Study Program and two science teachers at SMP Negeri 4 Sukasada, while the readability test was carried out on 10 grade VII students at SMP Negeri 4 Sukasada. The types of data obtained are qualitative and quantitative data. The research data obtained were analyzed descriptively. The results showed that (1) the characteristics of the snake and ladder media developed consisted of game boards, dice, pawns, game instructions, question cards and answer cards, (2) the validity level of the media obtained an average value of 4,33 which indicates very valid criteria, and (3) the average readability test results by students is 4,63 which indicates criteria are very legible or very easy to understand by students. Based on the results of the analysis of the validation and legibility tests carried out, it can be concluded that the development of the science snake and ladder media for SMP solar system material fulfills the validity and legibility aspects and needs to be retested until it is at the final stage of development so that it is suitable for use in learning.

Keywords: snake and ladder media, ADDIE model, the solar system