

**PENGEMBANGAN MEDIA PEMBELAJARAN MATEMATIKA
PECAHAN (MACAN) BERBASIS PENDEKATAN KONTEKSTUAL
MATERI PECAHAN PADA MUATAN MATEMATIKA KELAS V SD
NEGERI 7 SUKAWATI**

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ABSTRAK

Penelitian ini bertujuan (1) mendeskripsikan rancang bangun pengembangan media pembelajaran matematika pecahan (macan) berbasis pendekatan kontekstual materi pecahan pada muatan matematika, (2) mengetahui kelayakan pengembangan media pembelajaran matematika pecahan (macan) berbasis pendekatan kontekstual materi pecahan pada muatan matematika, (3) mengetahui efektivitas pengembangan media pembelajaran matematika pecahan (macan) berbasis pendekatan kontekstual materi pecahan pada muatan matematika. Metode pengumpulan data yang digunakan adalah metode observasi, wawancara, kuesioner dan tes. Teknik analisis data yang digunakan pada penelitian ini yaitu deskriptif kuantitatif, deskriptif kualitatif, statistik deskriptif dan statistik inferensial. (1) Rancang bangun media pembelajaran matematika pecahan (macan) berbasis pendekatan kontekstual berupa media elektronik/digital yang dikembangkan berdasarkan flowchart dan storyboard sesuai dengan model pengembangan ADDIE (2) Hasil uji kelayakan menunjukkan bahwa media pembelajaran matematika pecahan (macan) berbasis pendekatan kontekstual layak digunakan dalam pembelajaran berdasarkan: (a) hasil review ahli isi/materi pembelajaran sebesar 95,00% (sangat baik), (b) hasil review ahli desain instruksional sebesar 92,5% (sangat baik), (c) hasil review ahli media pembelajaran sebesar 92,5% (sangat baik), (d) hasil uji coba perorangan sebesar 93,33% (sangat baik), dan (e) hasil uji coba kelompok kecil sebesar 95,00% (sangat baik). (3) Hasil uji efektivitas media pembelajaran matematika pecahan (macan) berbasis pendekatan kontekstual diuji dengan menggunakan statistika inferensial teknik uji-t satu sampel dengan membandingkan rata-rata hasil post-test terhadap nilai KKTP yang ditetapkan sebesar 70. Diperoleh nilai t_{hitung} sebesar 6,578. Kemudian t_{hitung} dibandingkan dengan label sebesar 1,782 ($dk = n-1 = 12$, taraf signifikansi 5%). Hal ini berarti $t_{hitung} \geq t_{tabel}$, sehingga H_0 ditolak dan H_a diterima. Maka dapat disimpulkan bahwa media pembelajaran matematika pecahan (macan) berbasis pendekatan kontekstual efektif digunakan pada muatan matematika materi pecahan kelas V SD.

Kata Kunci:

Pengembangan, media pembelajaran matematika pecahan (macan), kontekstual, matematika.

**DEVELOPMENT OF MATEMATIKA PECAHAN (MACAN) LEARNING
MEDIA BASED ON A CONTEXTUAL APPROACH TO FRACTION
MATERIAL IN MATHEMATICS CONTENT FOR GRADE V AT SD
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ABSTRACT

This study aims to: (1) describe the design and development of Matematika Pecahan (Macan) learning media based on a contextual approach for fraction material in mathematics content, (2) determine the feasibility of the development of Matematika Pecahan (Macan) learning media based on a contextual approach for fraction material in mathematics content, and (3) assess the effectiveness of the development of Matematika Pecahan (Macan) learning media based on a contextual approach for fraction material in mathematics content. The data collection methods employed in this research include observation, interviews, questionnaires, and testing. The data analysis techniques utilized are quantitative descriptive analysis, qualitative descriptive analysis, descriptive statistics, and inferential statistics. The development of the Matematika Pecahan (Macan) learning media, based on a contextual approach, is presented in the form of electronic/digital media designed using flowcharts and storyboards in accordance with the ADDIE development model. The results of the feasibility test indicate that the Matematika Pecahan (Macan) learning media is appropriate for instructional use, as demonstrated by: (a) content/material expert validation results of 95.00% (categorized as very good), (b) instructional design expert validation results of 92.5% (very good), (c) instructional media expert validation results of 92.5% (very good), (d) individual trial results of 93.33% (very good), and (e) small group trial results of 95.00% (very good). The effectiveness test of the Matematika Pecahan (Macan) media was conducted using inferential statistics through a one-sample t-test by comparing the average post-test score to the established Minimum Mastery Criteria (KKTP) score of 70. The obtained t-value was 6.578. When compared to the t-table value of 1.782 ($df = n-1 = 12$, significance level 5%), the result shows that $t\text{-count} (6.578) \geq t\text{-table} (1.782)$, indicating that the null hypothesis (H_0) is rejected and the alternative hypothesis (H_i) is accepted. It can thus be concluded that the Matematika Pecahan (Macan) learning media based on a contextual approach is effective for use in teaching fraction material within the mathematics content for Grade V elementary school students.

Keywords:

Development, fractional mathematics, contextual.