

**PENGEMBANGAN *ACCORDION BOOK* BERBASIS EKSPERIMEN  
SEDERHANA UNTUK MENINGKATKAN PEMAHAMAN KONSEP IPA  
MATERI PERUBAHAN WUJUD BENDA SISWA KELAS IV SD**

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**ABSTRAK**

Penelitian ini memiliki empat tujuan; (1) menghasilkan rancang bangun *accordion book* berbasis eksperimen sederhana, (2) mengidentifikasi validitas hasil pengembangan *accordion book* pengembangan *accordion book* berbasis eksperimen sederhana, (3) mengidentifikasi kepraktisan *accordion book* berbasis eksperimen sederhana, (4) menganalisis keefektifannya *accordion book* berbasis eksperimen sederhana terhadap pemahaman konsep IPA kelas IV SD. Penelitian ini menggunakan model pengembangan ADDIE dengan metode Pengumpulan data berupa pemberian angket dan tes. Metode analisis data yang digunakan dalam penelitian ini adalah analisis deskriptif kualitatif dan analisis deskriptif kuantitatif. Sedangkan efektivitas *accordion book* berbasis eksperimen sederhana diukur menggunakan desain one group pretest-posttest dengan melibatkan 33 siswa. Hasil penelitian menunjukkan bahwa: (1) hasil validasi media memperoleh rerata 3,85 dari ahli materi dan 3,95 dari ahli media yang termasuk ke dalam kategori sangat baik, (2) kepraktisan *accordion book* diperoleh melalui penilaian respon guru, serta melalui respon siswa yang memperoleh nilai rerata persentase masing-masing sebesar 97,5% dan 98,7% sehingga kedua nilai tersebut termasuk ke dalam kategori sangat praktis, (3) hasil uji efektivitas menggunakan uji t berpasangan menunjukkan nilai signifikansi sebesar 0,000 kurang dari 0,05, yang berarti terdapat perbedaan yang signifikan antara pretes dan nilai postes setelah pemberian perlakuan menggunakan *accordion book* berbasis eksperimen sederhana. Dengan demikian, penggunaan *accordion book* berbasis eksperimen sederhana efektif meningkatkan pemahaman konsep IPA siswa kelas IV SD.

**Kata Kunci:** *Accordion Book*, Eksperimen Sederhana, Pemahaman Konsep IPA

**DEVELOPMENT OF AN ACCORDION BOOK BASED ON SIMPLE  
EXPERIMENTS TO IMPROVE FOURTH-GRADE ELEMENTARY  
SCHOOL STUDENTS' UNDERSTANDING OF SCIENCE CONCEPTS ON  
CHANGES IN THE STATES OF MATTER.**

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***ABSTRACT***

*This study had four objectives: (1) to develop the design of an accordion book based on simple experiments, (2) to identify the validity of the developed accordion book based on simple experiments, (3) to identify the practicality of the accordion book based on simple experiments, and (4) to analyze its effectiveness in improving science conceptual understanding of fourth-grade elementary school students. This study employed the ADDIE development model. Data were collected through questionnaires and tests. The data analysis methods used were qualitative descriptive analysis and quantitative descriptive analysis. The effectiveness of the accordion book based on simple experiments was measured using a one-group pretest–posttest design involving 33 students. The results showed that: (1) the media validation results obtained an average score of 3.85 from the material expert and 3.95 from the media expert, both categorized as very good; (2) the practicality of the accordion book was obtained from teachers' responses and students' responses, which yielded average percentage scores of 97.5% and 98.7%, respectively, both categorized as very practical; (3) the results of the effectiveness test using a paired-sample *t*-test showed a significance value of 0.000, which is less than 0.05, indicating a significant difference between pretest and posttest scores after the implementation of the accordion book based on simple experiments. Therefore, the use of an accordion book based on simple experiments is effective in improving science conceptual understanding of fourth-grade elementary school students.*

**Keywords:** *Accordion Book, Simple Experiments, Science Conceptual Understanding*