

## ABSTRACT

### Developing Science Learning Module Based on Cycle 7E- Based Approach for Grade IV of Elementary School

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*The background of this research was the existence problems. The students have not been accustomed to develop the concept that had been studied. The teaching materials used were not in accordance with the Basic Competency needs of the curriculum. Those cause students got low score especially in science. Based on those problems, it is necessary to develop science learning module that can help students in learning and can train students to develop the concept of material. The development of learning science model is based on Cycle 7E based. The purpose of this development is to produce a valid, practical, and an effective science learning module*

*This research is classified as research and development. The development model used is 4-D model consisting of definitions, design, development and disseminate. The validity test was obtained through validation sheet. Practicality test was collected through the lesson plan implementation sheet, teachers' and students' response in questionnaires. The effectiveness was seen from students' learning activities and scores.*

*The results of data analysis show that the validity of the developed module obtained the average score 3.77 (very valid). The observation results show that the implementation of lesson plan obtained 81.6% (very practical). The practicality test from teachers get 90% (very practical). Meanwhile, the practicality test from students gain 89% (very practical). Furthermore, observation results of the students' activities are classified very high. The assessments of the cognitive, affective and psychomotor aspects show that the results are higher than the minimum criteria. To sum up, the developed science learning module based on Cycle 7E-based for grade IV students of elementary school is stated as valid, practical, and effective module.*

## ABSTRAK

### **Pengembangan Modul pembelajaran IPA Berbasis *Learning Cycle 7E* untuk Kelas IV Sekolah Dasar**

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Penelitian ini dilatarbelakangi adanya masalah dimana peserta didik belum dibiasakan mengembangkan konsep yang telah dipelajari. Bahan Ajar yang digunakan belum sesuai dengan kebutuhan Kompetensi Dasar pada kurikulum. Sehingga berakibat pada rendahnya hasil belajar peserta didik pada mata pelajaran IPA. Berdasarkan hal tersebut perlu dikembangkan modul pembelajaran IPA yang dapat membantu peserta didik dalam pembelajaran IPA dan dapat melatih peserta didik mengembangkan konsep materi. Pada penelitian ini dikembangkan modul pembelajaran IPA berbasis *Learning Cycle 7E* yang diharapkan dapat mencapai sasaran tersebut. Tujuan dari upaya pengembangan ini adalah menghasilkan modul pembelajaran IPA berbasis *Learning Cycle 7E* yang valid, praktis, dan efektif.

Jenis penelitian adalah penelitian pengembangan (*research and development*). Model pengembangan yang digunakan adalah model 4-D yang terdiri dari tahap pendefinisian (*define*), perancangan (*design*), pengembangan (*develop*) dan penyebaran (*disseminate*). Data penelitian uji validitas diperoleh melalui lembar validasi modul pembelajaran. Data kepraktisan dikumpulkan melalui lembar keterlaksanaan RPP, angket respon guru dan peserta didik. Keefektifan dilihat dari aktivitas dan hasil belajar peserta didik.

Hasil analisis menunjukkan uji validitas modul pembelajaran IPA berbasis *Learning Cycle 7E* memperoleh rata-rata 3,77 (sangat valid). Hasil observasi keterlaksanaan RPP memperoleh rata-rata 81,6% (sangat praktis). Angket respon guru memperoleh rata-rata 90% (sangat praktis). Angket respon peserta didik memperoleh rata-rata 89% (sangat praktis). Hasil pengamatan aktivitas peserta didik sangat tinggi. Penilaian ranah kognitif, afektif dan psikomotor menunjukkan ketuntasan melebihi batas minimal. Kesimpulan penelitian adalah modul pembelajaran IPA berbasis *Learning Cycle 7E* untuk peserta didik kelas IV SD yang dikembangkan dinyatakan valid, praktis, dan efektif.