

**PENGEMBANGAN BUKU SUPLEMEN UNTUK PEMBELAJARAN BIOLOGI  
BERBASIS RISET KEARIFAN LOKAL DESA TENGANAN PEGRINGSINGAN  
UNTUK PESERTA DIDIK KELAS X DI SMA NEGERI 1 MANGGIS  
KARANGASEM**

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**ABSTRAK**

Penelitian ini memiliki tujuan untuk mengetahui (1) kelayakan buku suplemen biologi, (2) kepraktisan buku suplemen biologi, (3) efektivitas buku suplemen untuk pembelajaran biologi berbasis kearifan lokal Desa Tenganan Pegringsingan untuk peserta didik Kelas X di SMA Negeri 1 Manggis. Jenis penelitian ini yaitu penelitian eksploratif dan pengembangan (Research and Development). Subjek penelitian penelitian eksploratif yaitu 20 orang masyarakat Desa Tenganan Pegringsingan dan subjek penelitian pengembangan yaitu 2 Dosen ahli materi dan media untuk uji kelayakan, 1 guru biologi dan 9 peserta didik di Kelas X MIPA 3 SMAN 1 Manggis terkait uji kepraktisan produk serta 35 peserta didik di kelas X MIPA 3 SMAN 1 Manggis. Metode yang digunakan dalam pengambilan data adalah observasi lapangan dan wawancara, sedangkan untuk penelitian pengembangan menggunakan metode angket penilaian validasi ahli, angket respon peserta didik serta metode tes. Penelitian pengembangan menggunakan model pengembangan ADDIE (*Analyze, Design, Development, Implementation, and Evaluation*). Hasil penelitian menunjukkan bahwa (1) pengujian kelayakan didapatkan hasil persentase rata-rata 86,40% dengan kriteria “baik” (2) pengujian kepraktisan buku suplemen biologi mendapatkan persentase rata-rata 88,76% dengan kriteria “sangat praktis” (3) pengujian keefektifan dilakukan dengan Kriteria Ketuntasan Maksimum (KKM), nilai KKM di SMA Negeri 1 Manggis 65, nilai *posttest* peserta didik mendapatkan persentase rata-rata 85,71% dan nilai respon peserta didik terhadap pembelajaran menggunakan buku suplemen biologi mendapatkan nilai 7,590 dengan kategori “baik”. Hasil uji efektivitas buku suplemen biologi memperoleh skor rata-rata 4,277 dengan kategori “efektif” dengan kesimpulan penggunaan buku suplemen biologi yang dikembangkan efektif digunakan untuk mendukung proses pembelajaran pada materi pengelolaan lingkungan hidup.

Kata kunci: Pengembangan, Buku Suplemen, Pengelolaan Lingkungan Hidup, Kearifan Lokal

**DEVELOPMENT OF SUPPLEMENT BOOK FOR BIOLOGY LEARNING BASED  
ON RESEARCH ON LOCAL INFERENCE OF PEGRINGSINGAN VILLAGE  
MIDDLE FOR STUDENTS IN CLASS X IN SMA NEGERI 1 MANGGIS  
KARANGASEM**

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**ABSTRACT**

The purpose of this study was to determine (1) the feasibility of a biological supplement book, (2) the practicality of a biological supplement book, (3) a supplementary book for learning biology based on local wisdom Tenganan Pegringsingan Village for Class X students in SMA Negeri 1 Manggis. This type of research is exploratory and development research. Explorative research research subjects were 20 people from Tenganan Pegringsingan Village and development research subjects 2 Lecturers of material and media experts for feasibility testing, 1 biology teacher and 9 students related to product practicality testing and 35 students in class X MIPA 3 SMAN 1 Manggis. The method used in retrieving data is field observation and interviews, while for research development using a questionnaire, expert validation, student questionnaire responses and test methods. Development research uses the ADDIE development model (Analysis, Design, Development, Implementation, and Evaluation). The results showed that (1) the feasibility study obtained an average of 86.40% with the criteria of "good" (2) effectiveness testing was carried out with the Maximum Completion Criteria (KKM), the KKM value in SMA Negeri 1 Manggis 65, the participant's posttest score students get an average value of 85.71% and the value of students' responses to the use of using supplement books get a value of 7,590 with the category of "good". The test results of the benefits of biology supplement books reach an average score of 4.277 in the "effective" category with the conclusion that the use of a biology supplement book that was developed is effectively used to support the learning process on environmental agriculture material

**Keywords: Development, Supplement Book, Environmental Management, Local Wisdom**