

**PENGEMBANGAN BUKU AJAR MATERI PENCEMARAN
LINGKUNGAN BERBASIS DATA RISET DANAU BUYAN
UNTUK PESERTA DIDIK KELAS X MIPA DI SMA
CANDIMAS PANCASARI**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui (1) validitas produk buku ajar berbasis data riset Danau Buyan (2) tingkat kepraktisan buku ajar berbasis data riset Danau Buyan, dan (3) tingkat efektivitas buku ajar berbasis data riset Danau Buyan. Jenis Penelitian ini yaitu penelitian eksploratif dan pengembangan. Penelitian eksploratif dilaksanakan di tiga titik di Danau Buyan dan uji coba produk dilakukan di SMA Candimas Pancasari. Subyek dalam penelitian ini adalah peserta didik kelas X MIPA di SMA Candimas Pancasari dengan jumlah peserta didik sebanyak 30 orang. Prosedur penelitian eksploratif mengacu pada prosedur pengukuran kualitas air. Prosedur penelitian pengembangan mengacu pada model pengembangan ADDIE yang meliputi tahap *Analyze, Design, Development, Implementation, Evaluation*. Data yang sudah terkumpul selanjutnya di analisis secara deskriptif kuantitatif dan kualitatif. Hasil penelitian menunjukkan (1) produk buku ajar yang dihasilkan dari penelitian ini sangat layak untuk digunakan sebagai suplemen bahan ajar dengan tingkat validitas sebesar 80% dari ahli materi dan 91,2% dari ahli media, (2) produk hasil penelitian ini yang berupa buku ajar, sangat praktis digunakan di sekolah dengan tingkat kepraktisan sebesar 79% yang diberikan oleh guru dan 87,4% dari peserta didik (3) Buku ajar ini sangat efektif untuk digunakan sebagai bahan ajar dengan ketuntasan belajar peserta didik mencapai 90%.

Kata- Kata Kunci : Pengembangan, Data Riset, Buku Ajar, Danau Buyan

**DEVELOPMENT OF ENVIRONMENTAL DATA POLLUTION
BASED ON BUYAN LAKE RESEARCH DATA FOR STUDENTS IN
CLASS X MIPA AT CANDIMAS PANCASARI HIGH SCHOOL**

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ABSTRACT

The purpose of this research are to determine (1) the validity textbook product based on research in Lake Buyan (2) the practicality level textbook based on research in Lake Buyan, and (3) the effectiveness textbook based on research in Lake Buyan. This type of research is exploratory research and development. Explorative research was carried out at three points on Lake Buyan and product trials were conducted at SMA Candimas Pancasari. The subjects in this study were students of Class X MIPA in SMA Candimas Pancasari consist of 30 students. Explorative research procedures refer to procedures for measuring water quality. The development research procedure refers to the ADDIE development model which includes stages Analyze, Design, Development, Implementation, Evaluation. The collected data then analyzed descriptively quantitative and qualitative. The results showed (1) the textbook product produced from this study was very feasible to be used as a teaching material supplement with a validity level of 80% from the material experts and 91.2% from the media experts, (2) the products of the results of this study were in the form of books teaching, it is very practical to be used in schools with a practical level of 79% provided by teachers and 87.4% of students (3) This textbook is very effective to be used as teaching material with student learning completeness reaching 90%. Therefore the textbook product is valid, pratice and effective to used in biology learning in the class.

Keywords: *Development; research; textbook; Lake Buyan*