

**PENGEMBANGAN LEMBAR KERJA SISWA (LKS) BERBASIS MODEL
PREDICT OBSERVE EXPLAIN (POE) MENINGKATKAN HASIL
BELAJAR MATERI PENCEMARAN LINGKUNGAN KELAS X DI SMA
NEGERI 1 SINGARAJA**

Oleh

Arya Bagas Pratisthaya

1613041026

**Jurusan Biologi Perikanan dan Kelautan, Fakultas Matematika dan Ilmu
Pengetahuan Alam**

Universitas Pendidikan Ganesha, Singaraja

Abstrak

Penelitian ini bertujuan untuk mengembangkan dan mendeskripsikan karakteristik LKS berbasis model POE pada pembelajaran Biologi pokok bahasan pencemaran lingkungan serta keefektifan dalam penerapannya di SMA N 1 Singaraja. Penelitian ini merupakan penelitian pengembangan (*research and development*) dengan model ADDIE (*analyze, design, develop, implementation, evaluation*). Subjek penelitian ini adalah siswa kelas X MIPA 1 SMA N 1 Singaraja dengan jumlah 32 siswa. Instrumen yang digunakan dalam penelitian ini adalah lembar validasi ahli, angket respon pendidik dan respon siswa, serta tes hasil belajar biologi yang terdiri dari soal objektif. Teknik analisis data dilakukan dengan menganalisis secara deskriptif hasil penilaian dari uji hasil isi, ahli desain, guru biologi, dan uji kelompok besar yang dikumpulkan dalam bentuk angket. Keefektifan produk yang dikembangkan diperoleh dengan data skor tes siswa yang memenuhi ketuntasan klasikal yaitu >75% dari seluruh siswa mendapatkan skor lebih besar atau sama dengan Kriteria Ketuntasan Minimal (KKM). Berdasarkan hasil analisis data validasi dari kedua ahli, Lembar Kerja Siswa (LKS) berbasis model pembelajaran *Predict, Observe, and Explain* (POE) telah masuk dalam kategori layak digunakan dengan persentase 73,33% dari ahli materi dan 79,7% dari ahli media. Berdasarkan hasil respon pendidik dan siswa, penilaian yang dicapai rata-rata adalah menarik dengan presentase sebesar 78,03% dan rerata presentase dari respon siswa sebesar 91,91%. Analisis data hasil belajar siswa secara keseluruhan dengan perhitungan ketuntasan belajar klasikal diperoleh persentase kelulusan sebesar 100% yang tergolong dalam kategori sangat tinggi. Berdasarkan hasil analisis data dapat disimpulkan bahwa LKS berbasis model POE dinyatakan layak, efektif, dan mendapat respon menarik dari penggunaannya sehingga dapat diterapkan dalam pembelajaran biologi.

Kata kunci : Lembar Kerja Siswa, Model POE, Hasil Belajar.

**DEVELOPMENT OF STUDENT WORKSHEET BASED ON THE
PREDICT OBSERVE EXPLAIN (POE) MODEL IMPROVE LEARNING
OUTCOMES OF GRADE X ENVIRONMENTAL POLLUTION SUBJECT
IN SMA NEGERI 1 SINGARAJA**

By

Arya Bagas Pratisthaya

1613041026

**Biology and Marine Fisheries Departement, Faculty Mathematic and Natural
Science,**

Ganesha Education University, Singaraja

Abstract

This study aims to develop and describe the characteristics of student worksheet based on POE models on Biology especially the subject of environmental pollution and its effectiveness in its application at SMA N 1 Singaraja. This research is a research and development study with ADDIE model (analyze, design, develop, implementation, and evaluation). The subject of this research were 32 student of X MIPA 1 class SMA N 1 Singaraja. The instruments used in this study were expert validation sheets, questionnaire responses for educators and student responses, as well as biology learning outcomes tests consisting of objective questions. Data analysis technique is done by analyzing descriptively the results of the assessment of the results of the content test, design experts, biology teachers, and large group tests collected in the form of a questionnaire. The effectiveness of the developed product is obtained with the student test score data that meets the classical completeness $>75\%$ of all students get a score greater or equal to the Minimum completeness criteria. Based on the results of the validation data analysis from the two experts, the Student Worksheet (LKS) based on the Predict, Observe, and Explain (POE) learning model has been included in the category of feasible to use with a percentage of 73.33% of the material experts and 79.7% of the media experts. Based on the results of the response of educators and students, the assessment achieved on average is interesting with a percentage of 78.03% and the average percentage of student responses of 91.91%. Data analysis of student learning outcomes as a whole with a classical learning completeness calculation obtained percentage pass by 100% which is classified as very high category. Based on data analysis result can be conclude that student's worksheets based POE learning models stated feasible, effective, and get positive response from its user so that it can be applied in biology learning.

Keywords : *Student Worksheet, POE Model, Learning Achievement.*