

## ABSTRACT

**Raisa Nabila, NIM. 4163341043 (2016). Development of Student Worksheets (LKPD) Based on PBL (Problem Based Learning) on Environmental change materials in SMA Negeri 1 Lubuk Pakam.**

This study aims to produce LKPD biology class X SMA based on Problem Based Learning on environmental change materials that are suitable for use in the learning process according to material experts, teachers and students as well as according to learning experts. Then to find out the effectiveness of using the LKPD. The method used in this research is to use the R&D (Research and Development) method which aims to produce certain products and test their effectiveness. The instruments used are questionnaires and interviews, where the questionnaire has been validated by the validator. The results showed that the feasibility of LKPD on environmental change material based on problem based learning according to material experts was 94.2% or classified as very feasible, for learning experts it was 81% in the appropriate category, and according to design experts 86.3% in the very feasible category. , and according to the student's response to get a 100% presentation that is positive.

**Keywords:** *Worksheet development, Problem based Learning, Biology Learning.*

