

## ABSTRAK

Sari, F.Y. 2022. *Pengembangan Lembar Kerja Peserta Didik (LKPD) Berbasis Problem Based Learning (PBL) Pada Materi Laju Reaksi Kelas XI SMA*. Skripsi. Tanjungpinang: Program Studi Pendidikan Kimia, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Friska Septiani Silitonga., S.Pd., M.Sc. Pembimbing II: Assist. Prof. Ardi Widhia Sabekti., S.Pd., M.Pd.

**Kata kunci : LKPD, Problem Based Learning, Laju Reaksi**

Penelitian ini dilatar belakangi karena penggunaan bahan ajar pada pembelajaran kimia menggunakan buku cetak, LKS, *power point* dengan metode ceramah. Penggunaan bahan ajar yang terbatas belum dapat membantu peserta didik dalam memahami materi yang diajarkan secara optimal serta tercapainya tujuan pembelajaran, sehingga peneliti berinisiatif untuk mengembangkan LKPD berbasis PBL agar peserta didik dapat mengikuti atau memahami proses pembelajaran kimia dan menerapkan materi kimia dalam kehidupan sehari-hari, dan peserta didik tertarik dalam belajar pembelajaran kimia. Tujuan penelitian ini untuk mengetahui pengembangan LKPD berbasis PBL pada materi laju reaksi, dan untuk mengetahui validitas dan praktikalitas LKPD berbasis PBL pada materi laju reaksi. Respon guru dan peserta didik terhadap LKPD berbasis PBL yang dikembangkan. Penelitian ini menggunakan jenis penelitian *Research and Development* (R&D) dengan model pengembangan ADDIE yang terdiri dari 5 tahap yaitu tahap *Analysis* (Analisis), tahap *Design* (Perancangan), tahap *Development* (Pengembangan), tahap *Implementation* (Implementasi), dan tahap *Evaluation* (Evaluasi), dalam penelitian ini hanya digunakan sampai tahap implementasi (Penerapan). Subjek penelitian ini adalah 1 guru dan 20 peserta didik. Penelitian ini diuji oleh ahli materi dan bahan ajar, serta guru dan peserta didik seagai responden. Hasil validasi ahli materi didapatkan persentase rata-rata sebesar 76,78% dengan kategori valid, sedangkan hasil validasi bahan ajar didapatkan persentase rata-rata 71,78% dengan kategori valid. Hasil uji praktikalitas peserta didik didapat persentase rata-rata sebesar 89% dengan kategori sangat praktis dan hasil uji praktikalitas oleh guru sebesar 75% dengan kategori praktis. Berdasarkan hasil penelitian dapat disimpulkan bahwa LKPD berbasis PBL pada materi laju reaksi dinyatakan valid dan praktis digunakan dalam proses pembelajaran.

## ABSTRACT

Sari, F.Y. 2022. *Development of Student Worksheets (LKPD) Based on Problem Based Learning (PBL) on Class XI High School Reaction Rate Material. Skripsi*. Tanjungpinang: Program Studi Pendidikan Kimia, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Friska Septiani Silitonga., S.Pd., M.Sc. Pembimbing II: Assist. Prof. Ardi Widhia Sabekti., S.Pd., M.Pd.

**Keyword : LKPD, Problem Based Learning, Reaction Rate**

The background of This research is motivated by the use of teaching materials in chemistry learning using printed books, worksheets, power points using the lecture method. The use of limited teaching materials has not been able to help students understand the material taught optimally and achieve learning objectives, so researchers took the initiative to develop PBL-based worksheets so that students can follow or understand the process of learning chemistry and apply chemical material in everyday life, and students are interested in learning chemistry learning. The purpose of this study was to determine the development of PBL-based worksheets on reaction rate materials, and to determine the validity and practicality of PBL-based worksheets on reaction rate materials.. The response of teachers and students to the developed PBL-based LKPD. This study were Research and Development (R&D) research with the ADDIE research model which consists of 5 stages, namely the Analysis stage, Design stage, Development stage, Implementation stage, Evaluation stage, in this study only used until the implementation stage. The research subjects were 1 teacher and 20 students. This research was tested by material experts, teaching materials experts, teacher, and students as respondents. The results of the validation of teaching materials experts obtained an average percentage of 76,78% in the valid category, while the results of the validation of teaching materials experts obtained an average percentage of 71.78% in the valid category. The results of the practicality test of students obtained an average percentage of 89% in the very practical category and the results of the practicality test by the teacher of 75% in the practical category. Based on the results of the study it can be concluded that the PBL-based LKPD on the reaction rate material is stated to be valid and practically used in the learning process.