

ABSTRAK

PENGEMBANGAN LEMBAR KERJA SISWA MATERI PEMISAHAN CAMPURAN BERBASIS *PROJECT BASED LEARNING* UNTUK MENINGKATKAN KETERAMPILAN BERPIKIR KREATIF SISWA

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Penelitian ini bertujuan untuk mengembangkan LKS berbasis *project based learning* yang valid dan efektif dalam meningkatkan keterampilan berpikir kreatif siswa. Metode penelitian yang digunakan adalah metode 4D (*Define, Desain, Develop, Disseminate*) menurut Thiagarajan dkk (1974). Penyusunan LKS dilakukan setelah melakukan studi kepustakaan dan studi lapangan. Kevalidan LKS hasil pengembangan didasarkan pada hasil validasi ahli pada aspek kesesuaian isi dan aspek konstruksi. Selain itu, guru dan siswa diminta memberikan respon terhadap LKS hasil pengembangan. Respon guru meliputi aspek kesesuaian isi dan kemenarikan terhadap LKS serta respon terhadap pembelajaran yang menggunakan LKS hasil pengembangan. Respon siswa meliputi aspek kemenarikan terhadap LKS dan respon terhadap pembelajaran yang menggunakan LKS hasil pengembangan. Keefektifan LKS didasarkan pada perbedaan rata-rata nilai postes keterampilan berpikir kreatif pada kelas kontrol dan kelas eksperimen serta *effect size*. LKS berbasis *project based learning* untuk meningkatkan keterampilan berpikir kreatif dinyatakan valid. Hal ini dapat dilihat dari hasil validasi ahli

dengan kategori sangat tinggi. LKS hasil pengembangan mendapat respon yang baik dari guru dan siswa. Hal ini dapat terlihat dari respon guru dan respon siswa terhadap LKS yang berkategori sangat tinggi. LKS hasil pengembangan dinyatakan efektif. Hal ini dapat terlihat dari adanya perbedaan yang signifikan antara rata-rata-rata nilai postes keterampilan berpikir kreatif siswa di kelas eksperimen dan kelas kontrol serta *effect size* dengan kategori large. Rata-rata nilai postes pada kelas eksperimen lebih tinggi dibandingkan rata-rata nilai postes pada kelas kontrol.

Kata Kunci : LKS, materi pemisahan campuran, *project based learning*, keterampilan berpikir kreatif

ABSTRACT

DEVELOPMENT OF STUDENT WORKSHEET ON MIXTURE SEPARATION TOPIC BASED ON PROJECT BASED LEARNING TO IMPROVE CREATIVE THINKING SKILLS

By

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The aim of this study was to develop a project based student worksheet to improve creative thinking skills that valid and effective. The research method used was 4D (Define, Design, Develop, Disseminate) according to Thiagarajan et al (1974). Preparation of student worksheet done after literature study and field study. The validity of the student worksheet based on expert validity on content aspects and construction aspects. Teachers and students are asked to respond the project based student worksheets. Teacher responses include the content and attractiveness aspects of the project based student worksheets as well as the response to learning using project based student worksheet. Student responses include attractiveness aspect of project based student worksheet and responses to learning using project based student worksheets. The effectiveness of project based student worksheet was based on significant posttest differences between the control class and the experiment class as well as the effect size. The project based student worksheet to improve creative thinking skills was valid, It can be seen from the results of expert validation with very high category. Teachers and

students respond well to project based student worksheet, it can be seen from the teacher's and student's response with very high category. The project based student worksheet was effective in improving students' creative thinking skills on mixture separation topic. There was a significant difference between the average of posttest of creative thinking skill in experiment class and control class and the effect size with high category. The average of posttest of creative thinking skills in experiment class was higher than control class.

Keywords : Student worksheet, mixture separation topic, project based learning, creative thinking skills