

ABSTRAK

Anisa Dwi Afrianti, Nim 4183311008 (2022). Pengembangan Lembar Kerja Peserta Didik (Lkpd) Berbasis Model *Guided Discovery Learning* Untuk Meningkatkan Kemampuan Penalaran Peserta Didik Pada Materi SPLTV Kelas X

Penelitian ini bertujuan untuk mengembangkan LKPD berbasis model *guided discovery learning* untuk meningkatkan kemampuan penalaran peserta didik pada materi sistem persamaan linear tiga variabel. Kualitas LKPD ini mengacu pada aspek valid, praktis, dan efektif. Penelitian ini menggunakan jenis penelitian *research and development (R&D)* dengan model pengembangan ADDIE (*Analysis, Design, Development, Implementation, Evaluation*). Adapun subjek pada penelitian ini adalah peserta didik kelas X MIA-1 SMA Swasta Imelda Medan berjumlah 29 orang.

Berdasarkan penelitian yang sudah dilakukan, diperoleh hasil dari ahli validasi dengan persentase 79% LKPD berada pada kategori valid, sedangkan hasil dari ahli validasi dengan persentase 75% RPP berada pada kategori valid. Kepraktisan LKPD dilihat dari hasil angket respon guru mata pelajaran matematika dan peserta didik dengan persentase 84% dan 85% dimana persentase itu berada pada kategori sangat praktis. Keefektifan LKPD dilihat dari hasil ketuntasan belajar klasikal dengan persentase 86% dimana kategori tersebut sangat efektif. Peningkatan kemampuan penalaran pada peserta didik, hasil yang diperoleh tingkat kemampuan penalaran peserta didik berada pada persentase 81% berada pada kategori tinggi, sedangkan pada penilaian N-Gain diperoleh rata-rata peserta didik sebesar 0,666 yang berarti terjadi peningkatan kemampuan penalaran pada peserta didik dengan kategori sedang. Sehingga berdasarkan hasil yang diperoleh dapat disimpulkan bahwa LKPD yang dikembangkan pada penelitian ini adalah valid, praktis, efektif, dan mampu meningkatkan kemampuan penalaran matematika peserta didik.

Kata kunci: LKPD, Berbasis Model *Guided Discovery Learning*, Tingkat Kemampuan Penalaran



ABSTRACT

Anisa Dwi Afrianti, Nim 4183311008 (2022). Development of Student Worksheets (LKPD) Based on Guided Discovery Learning Models to Improve Students' Reasoning Ability in Class X SPLTV Materials.

This study aims to develop student worksheets based on guided discovery learning models to improve students' reasoning abilities on the material of a three-variable linear equation system. The quality of this LKPD refers to the valid, practical, and effective aspects. This research uses research and development (R&D) research with ADDIE development model (Analysis, Design, Development, Implementation, Evaluation). The subjects in this study were 29 students of class X MIA-1 SMA Imelda Medan.

Based on the research that has been done, the results obtained from the validation expert with a percentage of 79% LKPD are in the valid category, while the results from the validation expert with a percentage of 75% RPP are in the valid category. The practicality of the LKPD is seen from the results of the questionnaire responses of mathematics teachers and students with a percentage of 84% and 85% where the percentage is in the very practical category. The effectiveness of LKPD is seen from the results of classical learning completeness with a percentage of 86% where the category is very effective. Increasing the reasoning ability of students, the results obtained by the level of students' reasoning abilities are in the percentage of 81% in the high category, while the N-Gain assessment obtained an average of 0.666 students which means there is an increase in the reasoning abilities of students with categories currently. So based on the results obtained, it can be concluded that the worksheets developed in this study are valid, practical, effective, and able to improve students' mathematical reasoning abilities.

Keywords: Student Worksheets, Based on Guided Discovery Learning Model, Reasoning Ability Level

