

ABSTRAK

Citra Dina. R, 2021. *Desain Lembar Kerja Peserta Didik (LKPD) Pada Materi Sistem Persamaan Linear Tiga Variabel Berbasis Generative Learning Untuk Mengetahui Kemampuan Argumentasi Matematika Siswa SMA*. Tesis. Program Studi Magister Pendidikan Matematika, Universitas Jambi. Pembimbing (I) Prof.Dr. Muhammad Rusdi, S. Pd, M.Sc. Pembimbing (II) Dr. Nizlel Huda, M. Kes.

Kata Kunci : LKPD, Generative Learning , Argumentasi, Sistem Persamaan Linear Tiga Variabel.

Kemampuan pemahaman konsep matematis sangat penting bagi siswa khususnya siswa sekolah menengah karena dengan memahami konsep siswa mampu mengembangkan kemampuan matematis lainnya. Didalam komunikasi matematis terdapat indikator menyusun argumen. Kemampuan argumentasi matematis bukan berarti mengungkapkan gagasan yang identik dengan apa yang diungkapkan Guru. Argumentasi matematika merupakan mengungkapkan gagasan hasil saduran apa yang disampaikan oleh guru, apa yang didapatkan oleh siswa lewat sumber dengan mengambil gagasan dari suatu konsep, kaidah ataupun prinsip matematika

Pengembangan ini bertujuan untuk mengetahui prosedur, desain, respons siswa dan penilaian guru serta mengetahui argumentasi siswa. Pengembangan (LKPD) Pada Materi Sistem Persamaan Linear Tiga Variabel Berbasis *Generative Learning* di SMA Negeri 12 Kota Jambi.

Penelitian ini merupakan penelitian pengembangan yang mengadaptasi model Dick and Carey. Instrumen penelitian yang digunakan adalah lembar observasi, wawancara, angket terbuka dan tertutup, dan daily log. Produk hasil pengembangan divalidasi oleh ahli media, desain dan materi selanjutnya penilaian guru, ujicoba satu-satu dan ujicoba kelompok kecil.

Hasil ujicoba satu-satu untuk mempunyai persentase 77,00% dengan kategori “Layak” .Hasil ujicoba kelompok kecil mempunyai persentase 86.00 % dengan kategori “Layak”. Berdasarkan hasil penelitian diperoleh kesimpulan bahwa LKPD Pada Materi Sistem Persamaan Linear Tiga Variabel Berbasis *Generative Learning* yang dikembangkan dikategorikan baik dan dapat mengembangkan argumentasi siswa, sehingga layak digunakan sebagai media pembelajaran matematika..

ABSTRACT

Citra Dina. R., 2021. *Design of Student Worksheets (LKPD) on Three Variabel Linear Equations System Materials Based on Generative Learning to Improve Mathematical Argumentation Ability of High School Students*. Thesis Master of Mathematics Education Study Program, Jambi University. Supervisor (I) Prof. Dr. Muhammad Rusdi, S. Pd., M.Sc. Supervisor (II) Dr. Nizlel Huda., M. Kes.

Keywords:LKPD, Generative Learning, Argumentation, Three Variabel Linear Equation System.

The ability to understand mathematical concepts is very important for students, especially high school students because by understanding concepts students are able to develop other mathematical abilities. In mathematical communication, there are indicators of compiling arguments. The ability of mathematical argumentation does not mean expressing ideas that are identical to those expressed by the teacher. Mathematical argumentation is expressing ideas based on what is conveyed by the teacher, what is obtained by students through sources by taking ideas from a mathematical concept, rule or principle.

This development aims to determine the procedures, designs, student responses and teacher assessments in improving students' arguments. Development (LKPD) on Three Variabel Linear Equation System Materials Based on Generative Learning at SMA Negeri 12 Jambi City.

This research is a development research that adapts the Dick and Carey model. The research instruments used were observation sheets, interviews, open and closed questionnaires, and daily logs. The product developed was validated by media, design and material experts, followed by teacher assessment, one-on-one trials and small group trials.

The results of one-on-one trials one have a percentage of 77.00% with the category "Fair". The result of small group trial have a percentage of 86.00% with the category "Fair". Based on the results of the study, it was concluded that the LKPD on the Material of the Three Variabel Linear Equation System based on Generative Learning that was developed was categorized as good and could develop students' arguments, so it was feasible to be used as a medium for learning mathematics.