

## **ABSTRAK**

### **PENGEMBANGAN LKPD BERBASIS *DISCOVERY LEARNING* BERORIENTASI KEMAMPUAN PENALARAN MATEMATIS DAN *SELF ESTEEM* PESERTA DIDIK**

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Penelitian ini dilakukan untuk mengembangkan LKPD berbasis *discovery learning* berorientasi kemampuan penalaran matematis dan *self esteem* peserta didik menggunakan model pengembangan 4D. Subjek penelitian adalah peserta didik kelas XI SMA Negeri 1 Talang Padang tahun pelajaran 2022-2023. Data penelitian diperoleh melalui tes kemampuan penalaran matematis dan angket *self esteem* kepada siswa kelas IX IPA 4 sebagai kelas eksperimen dan kelas IX IPA 5 sebagai kelas kontrol. Hasil penelitian menunjukkan bahwa LKPD yang dikembangkan telah layak untuk digunakan menurut ahli materi, media dan bahasa serta mendapatkan respon positif dari guru dan siswa. Hasil uji lapangan menunjukkan bahwa kemampuan penalaran matematis dan *self esteem* peserta didik pada kelas eksperimen lebih tinggi daripada kelas kontrol, sehingga LKPD berbasis *discovery learning* efektif untuk meningkatkan kemampuan penalaran matematis dan *self esteem*. Oleh karenanya dapat disimpulkan bahwa LKPD berbasis *discovery learning* yang dikembangkan valid, menarik serta efektif untuk meningkatkan kemampuan penalaran matematis dan *self esteem* peserta didik.

**Kata Kunci:** *Discovery learning*, kemampuan penalaran matematis dan *self esteem*

## **ABSTRACT**

### **DEVELOPMENT OF LKPD BASED ON *DISCOVERY LEARNING* REASONING ABILITY ORIENTATION MATHEMATICS AND *SELF ESTEEM* LEARNERS**

**By**

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This research was conducted to develop LKPD based on discovery learning oriented to the ability of mathematical reasoning and participants ' self esteem using the 4D development model . The research subjects were participants in class XI SMA Negeri 1 Talang Padang for the 2022-2023 academic year . The research data were obtained through tests of mathematical reasoning abilities and self-esteem questionnaires for students in class IX IPA 4 as the experimental class and class IX IPA 5 as the control class. The results showed that the developed LKPD was feasible to use according to material, media and language experts and received positive responses from teachers and students . The results of the field test show that the mathematical reasoning abilities and self esteem of students in the experimental class are higher than those in the control class , so that discovery learning based LKPD is effective for improve mathematical reasoning abilities and self esteem . Therefore it can be concluded that the LKPD based on discovery learning that was developed is valid, interesting and effective for increasing students ' mathematical reasoning abilities and self esteem .

**Keywords:** Discovery learning, mathematical reasoning ability and self esteem