

ABSTRAK

PENGEMBANGAN LEMBAR KERJA SISWA DENGAN MODEL *ARGUMENT DRIVEN INQUIRY* UNTUK MENINGKATKAN KETERAMPILAN BERPIKIR KRITIS SISWA

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Penelitian ini bertujuan untuk mengembangkan LKS model *Argument-Driven Inquiry* (ADI) yang valid untuk meningkatkan keterampilan berpikir kritis siswa serta mendeskripsikan kevalidan LKS, kepraktisan LKS, dan efektivitas LKS. Desain penelitian pengembangan ini diadopsi dari Thiagarajan, Semmel, & Semmel (1974). Kevalidan LKS hasil pengembangan ditunjukkan dengan hasil validasi ahli yang meliputi aspek kesesuaian isi dan konstruksi. Kepraktisan LKS dilihat dari keterlaksanaan LKS dan respon siswa. Efektivitas LKS model *Argument-Driven Inquiry* (ADI) dilihat berdasarkan peningkatan nilai *pretest* dan *posttest*, yang dalam hal ini dilihat dari peningkatan keterampilan berpikir kritis siswa. Sampel penelitian ini adalah siswa kelas IX₃ sebagai kelas eksperimen dan kelas IX₄ sebagai kelas kontrol. Data keterampilan berpikir kritis siswa yang diperoleh dianalisis menggunakan uji normalitas, uji perbedaan dua rata-rata dan perhitungan *effect size*.

Hasil penelitian menunjukkan bahwa LKS model *Argument-Driven Inquiry* (ADI) yang dikembangkan memiliki tingkat validitas isi dan konstruksi yang tergolong sangat valid (= 100%). Dari aspek kepraktisan LKS dilihat dari keterlaksanaan LKS berkriteria tinggi (= 70,2%) dan respon siswa yang tergolong positif (= 100%). Efektivitas LKS dilihat dari peningkatan nilai *pretest* dan *posttest*, yang dalam hal ini dilihat dari peningkatan keterampilan berpikir kritis siswa.

Peningkatan keterampilan berpikir kritis dapat dilihat dari *N-gain*. Pada kelas eksperimen, *N-gain* yang diperoleh adalah sebesar 0,36 dan untuk kelas kontrol *N-gain* sebesar 0,10, sehingga berkriteria sedang. Berdasarkan hasil tersebut, maka LKS model *Argument-Driven Inquiry* (ADI) efektif untuk meningkatkan keterampilan berpikir kritis siswa.

Kata kunci : Lembar kerja siswa, *Argument-Driven Inquiry* (ADI), keterampilan berpikir kritis.

ABSTRACT

DEVELOPMENT OF STUDENT WORKSHEETS WITH *ARGUMEN DRIVEN INQUIRY MODEL* FOR IMPROVE SKILLS STUDENT CRITICAL THINKING

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This study aims to develop a valid *Argument-Driven Inquiry* (ADI) model worksheet to improve students' critical thinking skills and to describe the validity of the worksheets, the practicality of the worksheets, and the effectiveness of the worksheets. This development research design was adopted from Thiagarajan, Semmel, & Semmel (1974). The validity of the developed LKS is demonstrated by the results of expert validation which includes aspects of the suitability of content and construction. The practicality of the LKS is seen from the implementation of the LKS and student responses. The effectiveness of the *Argument-Driven Inquiry* (ADI) model worksheet is seen based on the increase in the pretest and posttest scores, which in this case is seen from the increase in students' critical thinking skills. The samples of this study were students of class IX3 as the experimental class and class IX4 as the control class. The students' critical thinking skills data obtained were analyzed using the normality test, the two-average difference test and the calculation of *effect size*.

The results showed that the *Argument-Driven Inquiry* (ADI) model worksheet that was developed had a content and construction validity level that was classified as very valid (= 100%). From the practical aspect of LKS, it can be seen from the implementation of LKS with high criteria (= 70.2%) and student responses which are classified as positive (= 100%). The effectiveness of LKS is seen from the increase in the *pretest* and *posttest* scores, which in this case is seen from the increase in students' critical thinking skills. The improvement of critical thinking skills can be seen from the *N-gain*. In the experimental class, the *N-gain* obtained is 0.36 and for the control class the *N-gain* is 0.10, so the criteria are moderate.

Based on these results, the *Argument-Driven Inquiry* (ADI) model worksheet is effective for improving students' critical thinking skills.

Keywords: Student worksheets, *Argument-Driven Inquiry* (ADI), critical thinking skills.