

ABSTRACT

DEVELOPMENT OF STUDENTS WORKSHEET WITH THINKING ALOUD PAIR PROBLEM SOLVING LEARNING MODELS IN IMPROVE MATHEMATICAL REFLECTIVE THINKING SKILLS

By

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This development research aims to produce student worksheet with the TAPPS learning models in improving students mathematical reflective thinking skills. This development research procedure uses the stages of Tessmer, namely the preliminary stage and the formative evaluation stage which includes the self-evaluation stage, prototyping (expert review, one to one, small group), and field test. The subject of this study were tenth grade students of SMK Muhammadiyah 2 Bandar Lampung in the school years 2021/2022. The research data was obtained use a questionnaire and test of mathematical reflective thinking skills. The results of the data analysis of the validity test and practicality test of the developed students worksheet are meets the valid and practical criteria. The results of the data analysis of the mathematical reflective thinking ability show that the student worksheet with the TAPPS model is effective in improving mathematical reflective thinking abilities. Thus it can be concluded that the student worksheet with the TAPPS model developed is valid, practical, and effective in improving students mathematical reflective thinking abilities.

Keywords: Mathematical reflective thinking skills, student worksheet, TAPPS learning models.

ABSTRAK

PENGEMBANGAN LKPD DENGAN MODEL PEMBELAJARAN *THINKING ALOUD PAIR PROBLEM SOLVING (TAPPS)* DALAM MENINGKATKAN KEMAMPUAN BERPIKIR REFLEKTIF MATEMATIS

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Penelitian pengembangan ini bertujuan untuk menghasilkan LKPD dengan model pembelajaran TAPPS dalam meningkatkan kemampuan berpikir reflektif matematis peserta didik. Prosedur penelitian pengembangan ini menggunakan tahapan dari Tessmer, yaitu tahap *preliminary* dan tahap *formative evaluation* yang meliputi tahap *self evaluation, prototyping (expert review, one to one, small group)*, dan *field test*. Subjek penelitian ini adalah peserta didik kelas X SMK Muhammadiyah 2 Bandar Lampung Tahun Pelajaran 2021/2022. Data penelitian ini diperoleh menggunakan angket dan tes kemampuan berpikir reflektif matematis. Hasil analisis data uji kevalidan dan uji kepraktisan LKPD yang dikembangkan memenuhi kriteria valid dan praktis. Hasil analisis data uji *n-gain* kemampuan berpikir reflektif matematis menunjukkan bahwa LKPD dengan model TAPPS efektif dalam meningkatkan kemampuan berpikir reflektif matematis. Dengan demikian dapat disimpulkan bahwa LKPD dengan model TAPPS yang dikembangkan valid, praktis, dan efektif dalam meningkatkan kemampuan berpikir reflektif matematis peserta didik.

Kata kunci: Kemampuan berpikir reflektif matematis, LKPD, model pembelajaran TAPPS.