

ABSTRAK

Luruk, Maria Marlina. 2026. “Pengembangan LKM Matematika Berbasis Kontekstual dengan Pendekatan *Deep Learning* untuk Meningkatkan Pemahaman Murid Kelas VII SMP Negeri 25 Malang”. Tugas Akhir. Program Studi Pendidikan Matematika, Program Sarjana Universitas Tribhuwana Tungadewi. Pembimbing (1) Nila Kartika Sari, S.Pd., M.Pd (2) Rio Febrianto Arifendi, S.Pd, M.Pd

Penelitian ini bertujuan untuk mengembangkan Lembar Kerja Murid (LKM) matematika berbasis kontekstual dengan pendekatan *deep learning* guna meningkatkan pemahaman konsep siswa kelas VII di SMP Negeri 25 Malang. Pengembangan dilakukan menggunakan model penelitian dan pengembangan ADDIE dengan tahapan analisis, perancangan produk, pengembangan produk, implementasi atau uji coba produk, dan evaluasi. LKM dirancang untuk mengaitkan materi matematika dengan situasi nyata serta memanfaatkan prinsip *deep learning* yang menekankan pendalaman konsep, keterkaitan antar materi, dan refleksi pembelajaran. Instrumen penelitian meliputi instrumen validasi ahli dan instrumen respons murid.

Hasil validasi menunjukkan bahwa LKM yang dikembangkan berada pada kategori sangat layak dari aspek materi, bahasa, serta penyajian dan efektif untuk digunakan di sekolah, dengan rata-rata penilaian ahli materi 86% dan ahli media 98%. Respon peserta didik juga menunjukkan bahwa LKM sangat efektif, dengan rata-rata 93,51%. Selain itu, terdapat peningkatan nilai rata-rata *pre-test* dan *post-test* sebesar 29,34 dengan rata-rata nilai *pre-test* 58,59 dan rata-rata nilai *post-test* 87,93. Dengan demikian, LKM berbasis kontekstual dengan pendekatan *deep learning* layak dan efektif digunakan sebagai media pembelajaran untuk meningkatkan pemahaman matematika siswa kelas VII.

Kata Kunci: Lembar Kerja Murid (LKM); pembelajaran kontekstual; *deep learning*; ADDIE; pemahaman konsep; matematika SMP.

ABSTRACT

Luruk, Maria Marlina. 2026. "Development of Contextual-Based Mathematics Student Worksheets Using a Deep Learning Approach to Improve Conceptual Understanding of Grade VII Students at SMP Negeri 25 Malang". Undergraduate Thesis. Mathematics Education Study Program, Universitas Tribhuwana Tunggaladewi. Advisors: (1) Nila Kartika Sari, S.Pd., M.Pd., (2) Rio Febrianto Arifendi, S.Pd., M.Pd.

This study aims to develop contextual-based mathematics student worksheets (LKM) using a deep learning approach to improve the conceptual understanding of seventh-grade students at SMP Negeri 25 Malang. The development followed the ADDIE research and development (R&D) model, which encompasses five stages: analysis, design, development, implementation, and evaluation. The worksheets were designed to bridge mathematical concepts with real-world situations while incorporating deep learning principles that emphasize in-depth conceptual exploration, material interconnectedness, and learning reflection. The research instruments consisted of expert validation rubrics and student response questionnaires.

The validation results indicated that the developed worksheets are categorized as "highly feasible" in terms of content, language, and presentation. The media and material experts gave average scores of 98% and 86%, respectively, suggesting the product is highly effective for classroom use. Student responses further confirmed this effectiveness with an average score of 93.51%. Moreover, there was a significant improvement in student performance, with the average score increasing by 29.34 points (from 58.59 to 87.93). Thus, it can be concluded that the context-based student worksheets with a deep learning approach are both feasible and effective as a learning medium to enhance the mathematical understanding of seventh-grade students.

Keywords: *Student Worksheets (LKM), contextual learning, deep learning, ADDIE, conceptual understanding, junior high school mathematics.*