ABSTRAK

Saymara Arnika Br Sembiring, NIM 4172111016 (2024) , Pengembangan Lembar kerja Peserta Didik Berbasis Pendekatan Matematika Realistik Untuk Meningkatkan Hasil Belajar Siswa Dengan Menggunakan Liveworksheet.

Tujuan umum penelitian ini addalah untuk meningkatkan hasil belajar peserta didik, sedangkan tujuan khusus penelitian ini yaitu untuk mengetahui validitas, kepraktisan, dan keefektifan produk LKPD berbasis PMR dengan menggunakan liveworksheet pada materi peluang di kelas X SMA Negeri 1 Tigalingga. Penelitian ini termasuk dalam penelitian pengembangan dengan menggunakan model pengembangan ADDIE (*Analysis, Design, Development, Implementation, Evaluation*). Subjek penelitian ini adalah peserta didik kelas X SMA Negeri 1 Tigalingga, dan objek penetitian ini yaitu LKPD berbasis PMR. Hasil penelitian menunjukkan bahwa telah berhasil dikembangkan LKPD berbasis PMR dengan menggunakan liveworksheet yang berkualitas dari: (1) aspek validitas dengan skor rata-rata 88,25% kategori sangat valid, (2) aspek kepraktisan berdasarkan respon yang menyatakan LKPD dapat digunakan dengan revisi sesuai saran serta kualifikasi rata-rata kegiatan pembelajaran 100% kategori sangat baik, (3) aspek keefektifan dengan ketuntasan klasikal peserta didik 91,2%, ketercapaian indikator memahami masalah peluang 71%, indikator merencanakan penyelesaian masalah peluang sebesar 94%, indikator melaksanakan rencana penyelesaian sebesar 91%, dan indikator memeriksa kembali sebesar 68%, 96,3% peserta didik memberikan respon positif, dan waktu pembelajaran menggunakan LKPD yang dikembangkan tidak melebihi waktu pembelajaran biasanya. Serta terjedi peningkatan hasil belajar peserta didik dengan skor 0,64 kategori sedang.

Kata kunci: LKPD, PMR, Liveworksheet, ADDIE, Hasil Belajar Peserta didik

ABSTRACT

Saymara Arnika Br Sembiring, NIM 4172111016 (2024) , Developing Student Worksheets Based on a Realistic Mathematics Approach to Improve Student Learning Outcomes Using Liveworksheets.

The general aim of this research is to improve student learning outcomes, while the specific aim of this research is to determine the validity, practicality and effectiveness of PMR-based LKPD products using live worksheets on opportunity material in class X SMA Negeri 1 Tigalingga. This research is included in development research using the ADDIE (Analysis, Design, Development, Implementation, Evaluation) development model. The subjects of this research were class X students of SMA Negeri 1 Tigalingga, and the object of this research was PMR-based LKPD. The research results show that PMR-based LKPD has been successfully developed using quality live worksheets from: (1) the validity aspect with an average score of 88.25% in the very valid category, (2) the practicality aspect based on responses which state that the LKPD can be used with appropriate revisions. suggestions and qualifications, the average learning activity is 100% in the very good category, (3) the effectiveness aspect with students' classical completeness is 91.2%, the achievement of the indicator of understanding opportunity problems is 71%, the indicator of planning to solve opportunity problems is 94%, the indicator of implementing the solution plan amounted to 91%, and the indicator for checking again was 68%, 96.3% of students gave positive responses, and the learning time using the LKPD developed did not exceed the usual learning time. There was also an increase in student learning outcomes with a score of 0.64 in the medium category.

Keywords: LKPD, PMR, Liveworksheet, ADDIE, Student Learning Results