

ABSTRAK

Rosda Kartka, NIM 4171141041, Pengembangan Lembar Kerja Peserta Didik dengan Pendekatan Saintifik Berbasis Aplikasi *Articulate Storyline* pada Materi Virus di Kelas X MIA SMA Swasta Bintang Langkat

Penelitian ini bertujuan untuk mengembangkan lembar kerja peserta didik dengan pendekatan saintifik berbasis aplikasi *Articulate Storyline* pada materi virus di kelas X SMA Swasta Bintang Langkat. Selanjutnya LKPD diuji untuk mengetahui kelayakan, kepraktisan, dan efektivitas untuk meningkatkan keterampilan proses belajar peserta didik. Populasi penelitian ini terdiri dari 20 peserta didik kelas X MIA. Jenis penelitian ini adalah penelitian pengembangan dengan model 4-D. Data pada penelitian ini dikumpulkan dengan teknik pemberian angket kelayakan, angket kepraktisan dan pemberian soal *pretest* dan *posttest*. Hasil penelitian ini menunjukkan: (1) hasil kelayakan berfasarkan penilaian ahli materi adalah 76% dengan kategori layak, untuk kelayakan media diperoleh skor presentase 82,3% dengan kategori sangat layak dan hasil kelayakan berdasarkan penilaian ahli pembelajaran memperoleh skor presentase 93% dengan kategori sangat layak, (2) hasil uji kepraktisan menunjukkan bahwa LKPD sangat praktis dari respon pendidik 90,65% dan respon peserta didik 85,83%, (3) Hasil uji keefektivitasan penggunaan LKPD dilihat dari hasil perbandingan nilai *pretest* dan *posttest* yang dibuat hasil dalam bentuk *N-Gain* dengan nilai 0,70 dengan kategori sedang. Berdasarkan hasil penelitian dapat disimpulkan bahwa (1) LKPD telah memperoleh penilaian yang layak, (2) LKPD telah memperoleh penilaian yang praktis, dan (3) LKPD efektif meningkatkan hasil belajar peserta didik.

Kata kunci: LKPD, Pendekatan saintifik, *Articulate Storyline*, materi virus

ABSTRACT

Rosda Kartka, NIM 4171141041, Development of Student Worksheets with a Scientific Approach Based on the Articulate Storyline Application on Virus Material in Class X MIA Bintang Private High School Langkat

This research aims to develop student worksheets with a scientific approach based on the Articulate Storyline application on virus material in class X of Bintang Langkat Private High School. Next, the LKPD is tested to determine its feasibility, practicality and effectiveness in improving students' learning process skills. The population of this study consisted of 20 students from class X MIA. This type of research is development research with a 4-D model. The data in this study were collected using feasibility questionnaires, practicality questionnaires and pretest and posttest questions. The results of this research show: (1) the feasibility results based on the material expert's assessment were 76% in the feasible category, for media feasibility the percentage score was 82.3% in the very feasible category and the feasibility results based on the learning expert's assessment obtained a percentage score of 93% in the very feasible category. feasible, (2) the results of the practicality test show that the LKPD is very practical from the teacher response of 90.65% and the student response of 85.83%, (3) The results of the test for the effectiveness of using the LKPD can be seen from the results of the comparison of pretest and posttest scores which are made in the form of N -Gain with a value of 0.70 in the medium category. Based on the research results, it can be concluded that (1) the LKPD has received a proper assessment, (2) the LKPD has received a practical assessment, and (3) the LKPD has been effective in improving student learning outcomes..

Keywords: LKPD, scientific approach, *Articulate Storyline*, virus material