

Development of E-Lkpd Based on Liveworksheet Software to Improve Learning Outcomes of Theme 7 Subtheme 1 National Events during the Colonial Period in Students Grade V at SDN Jember Kidul 04

Imeilda Rossa¹, Muhammad Sulthon Masyhud², Dyah Ayu Puspitaningrum³ Chumi Zahroul Fitriyah⁴, Zetti Finali⁵

¹²³⁴⁵ Department of Education, Faculty of Teacher Training and Education, University of Jember

E-mail : dyahayu.fkip@unej.id

Abstract: This research discuss about development of E-LKPD based on live worksheet software to improve learning outcomes for theme 7 subtheme 1 national events during the colonial period for class V students at SDN Jember Kidul 04. The aim of this research is to determine the validity, practicality and effectiveness of E-LKPD based on liveworksheet software. This research is research and development using the Borg and Gall Research and Development (R&D) development model. The E-LKPD validation score obtained was 90, which is in the very feasible category. The effectiveness of E-LKPD is at 45% effectiveness which is in the medium effectiveness category. The practicality of E-LKPD obtained an average practicality score of 88% which is in the very practical category. Based on the research results that have been obtained, it can be concluded that E-LKPD has been declared very valid, quite effective, and very practical for improving learning outcomes for theme 7 subtheme 1 national events during the colonial period among fifth grade students at SDN Jember Kidul 04.

Keywords: E-LKPD, Software Liveworksheet

INTRODUCTION

Education in Indonesia is now growing. This development can be seen in several ways, one of which is the development of the curriculum used, the curriculum used at this time is the independent curriculum. The independent curriculum is a curriculum that has goals intended to hone children's interests and talents from an early age by focusing on essential material, character development and student competencies. However, in its application, not all elementary school levels apply it, some levels still use the 2013 curriculum. The 2013 curriculum is a curriculum that combines competence and character and a curriculum that refines the Education Unit Level Curriculum (KTSP). The purpose of the 2013 curriculum is to develop a productive, creative, innovative, and affective learning process that will be integrated by cognitive abilities, attitudes and skills (Fitriyah, 2022). The concept of curriculum learning at this time, teachers must be able to provide meaningful learning so that students can understand learning optimally. Meaningful learning can be done by teachers by providing teaching materials and learning materials that are interesting to students. In this 2013 curriculum learning using teacher books and student

books in addition to supporting learning activities, teachers also use Learner Worksheets (LKPD).

Various demands in education also require media to facilitate students in mastering learning materials in a coherent and systematic manner, mastering learning materials coherently and systematically, so that all students' abilities can be accumulated in an integrated manner. Learning media, especially LKPD, is teaching material in the form of sheets of paper that contain information and questions in the form of questions that must be answered by students (Chintia et al, 2019). LKPD circulating in the field is only a collection of questions and a lack of material explanation to students. The images available in the LKPD are still minimal and black and white in color, causing students to understand less and making this LKPD less attractive to students. Of course, this will result in learning activities in LKPD feeling monotonous and less varied because LKPD has not motivated students to develop their own ideas and experiences. The appearance of the LKPD is no less important, an attractive appearance will be the first impression for students. Therefore, the layout of images, tables, graphs, and colors must be made appropriately. LKPD is a learning tool that should be developed. LKPD can be developed as interesting and innovative

as possible with the help of various websites that are easily accessible. The rapid pace of technology from time to time demands that we be ready to use it. Someone who is unable to adjust to the rapid pace of technology is considered unable to face global challenges and outdated, one of which is in the world of education. Technology that is growing rapidly shows the higher needs of the general public in viewing information. The increasing number of technologies also makes media or educational support tools are increasingly developed and sophisticated, but it is also necessary to choose the right media in the application in the field. The thing that encourages achieving these indicators is teaching materials, one of which is LKPD (Fitriyah & Ghofur, 2021).

Along with the times, the presentation of LKPD can be connected through electronic-based media called E-LKPD. In general, LKPDs are in the form of hard files that are made in such a way with the help of applications or sites so that they can also be in the form of soft files so that distribution to students is easier and more efficient. E-LKPD is teaching material that can combine text, animation, video, images and is supported by a guide to make students more interactive in its use. This is an answer to the problems found in learning activities that seem less than optimal in the digital era (Hidayah, 2022).

Based on the results of an interview with the fifth grade teacher of SDN Jember kidul 04, on Friday, June 10, 2022 that the teaching and learning process still uses commonly used media, the teacher describes the material using the lecture method through textbooks, then the teacher provides LKPD. The results of the interview found that the LKPD found at school has black and white images that make students less interested in doing exercise questions, and the material is general so that the knowledge obtained by students is limited. The emergence of these circumstances requires development research in the use of more interactive media or what is commonly called interactive multimedia in order to achieve learning kidul 04.

effectiveness for the achievement of learning objectives.

Interactive multimedia in order to achieve learning effectiveness for the achievement of learning objectives and meaningful for students in V SDN Jember kidul 04. The application of so

METHODS

The type of research used is Research and Development (R&D) development research of the Borg and Gall model, using 8 stages, namely: (1) preliminary research stage; (2) development planning stage; (3) initial product design development stage; (4) product design validation stage; (5) initial product revision stage; (6) trial use stage; (7) product development revision stage; and (8) product effectiveness trial stage.

This research used SDN Jember kidul 04 to conduct the E-LKPD trial. E-LKPD product development was carried out in April in the even semester of the 2022/2023 academic year. Limited trials were conducted in 2 classes, namely classes VA and VB at SDN Jember kidul 04.

The results obtained were then categorized based on the validity, effective, and practical category tables as shown in Table 1, Table 2, and Table 3.

Tabel 1. Kriteria Validitas

Kriteria Skor	Kategori Kelayakan Produk
81 – 100	Sangat Layak
61,00 – 80,99	Layak
41,00 – 60,99	Cukup Layak
21 – 40,99	Kurang Layak
0 – 20,99	Sangat Kurang layak

Tabel 2. Kriteria efektif

Kriteria Skor	Kategori Keefektifan
81,00% – 100%	Keefektifan sangat tinggi
61% – 80,00%	Keefektifan tinggi

Pemilihan Kelas uji coba telah ditentukan berdasarkan hasil dari undian, tetapi sebelumnya dilakukan uji homogenitas, Hal ini menjelaskan bahwa

41,00%	–	Keefektifan sedang
60,99%		
21,00%	–	Keefektifan rendah
40,99%		

keadaan kedua kelas sebelum dilakukan penelitian yaitu homogen.

Teknik pengumpulan data pada penelitian ini menggunakan observasi, wawancara, validasi, tes, angket, dan dokumentasi. Instrumen penelitian yang digunakan meliputi lembar validasi E- LKPD, lembar observasi, dan lembar observasi peserta didik. Validasi E-LKPD dilakukan oleh dua dosen Fakultas Keguruan dan Pendidikan di Universitas Jember lalu dihitung menggunakan rumus valpro, keefektifan E-LKPD dihitung menggunakan rumus uji t-test dilanjutkan dengan uji keefektifan relatif (ER). Kepraktisan E-LKPD dihitung menggunakan hasil analisis respon siswa dengan menggunakan rumus skor angket siswa (Sas). Hasil penelitian yang

0% – 20,99% Keefektif sangat rendah

Tabel 3. Kriteria Praktis

Kriteria Skor	Kategori Keefektifan
81,00 – 100	Sangat Efektif
71,00 – 80,99	Efektif
61,00 – 70,99	Cukup Efektif
41,00 – 60,99	Kurang Efektif
0 – 40,99	Tidak Efektif

RESULT AND DISCUSSION

This research is a development research whose purpose is to see whether or not there is a significant effect of the application of E-LKPDs. assisted by liveworksheet software on the learning outcomes of grade V students of SDN Jember kidul 04 in the even semester of the 2022/2023 school year. This research was conducted by applying E-LKPD based on liveworksheet software, the grids of E-LKPD based on liveworksheet software that have been produced are 1 LKPD cover page, 1 instructions for use, 1 basic competency, 1 learning material, and 5 pages of practice questions.

The research began by conducting homogeneity testing on classes VA and VB. This test was used to determine the ability of the two classes before the application of E-LKPD based on liveworksheet software. The homogeneity test was conducted through the SPSS program. it is known

that the result of the significance value is 0.595. The significance value can be stated > 0.05 ($0.595 > 0.05$). The results obtained by class VA became the experimental class and class VB became the control class. Next is the validity and reliability test and the results of the number of questions used are 23 multiple choice questions. The next step, both classes were given a pretest which aims to see the initial ability of students.

Furthermore, using the independent sampling t-test analysis technique. This t-test uses 2 groups, namely group A using the LKPD product treatment and group B not using the E-LKPD product that has been developed. The t-test results are then analyzed using the t-table, if the t-test results are higher or equal to the t-table, then the developed LKPD is very effective when compared to the old product. If the t-test results are lower than the t-table, then the LKPD that has been developed is less effective than the old product.

Effectiveness is lower than the old product. Based on the data analysis that has been done, the t-count is obtained at 15.400, these results are then consulted with the t table at a significance level of 0.05 with df 48 which is 1.677. These results show that the tcount value is greater than the ttable ($15,400 > 1,677$). Based on these results it can be concluded that the LKPD that has been developed is more effective than the old LKPD. From the effectiveness test, it is continued with the relative effectiveness (ER) test to find out how effective the level of effectiveness is compared to the previous product. Based on the results of calculations using the formula above, the ER result is 45% which is categorized as moderate effectiveness of the learning outcomes of theme 7 on grade V students at SDN Jember. 7 in fifth grade students at SDN Jember kidul 04, while the remaining 55% is influenced by other factors outside the E-LPD. These factors include internal and external factors, for example internal factors such as motivation in students, physical and physical health of students while external factors are parents, schools and social communities. It can be concluded that, learning outcomes on the use of LKPD based on liveworksheet software are more effective than learning outcomes using the old LKPD.

CONCLUSION

Based on the results of the analysis and discussion that has been described, the process of developing E-LKPD based on liveworksheet software theme 7 subtheme 1 national events during the colonial period uses 8 stages using the R & D development model, namely: 1. using the R & D development model, namely: (1) preliminary research stage; Based on the results of the research (2) development planning stage; (3) initial product design development stage; (4) product design validation stage; (5) initial product revision stage; (6) trial use stage; (7) product development revision stage; and (8) product effectiveness trial stage.

Significant development results from the application of E-LKPD based on lifeworksheet software on the learning outcomes of theme 7 subtheme 1 national events of the colonial period in grade V students at SDN Jember kidul 04. This is known from the results of the validation score getting a score of 90 and categorized as very worthy of being tested. The effectiveness of E-LPD is generated from the results of pretests and posttests in experimental and control classes, and obtained a t-count of 15,400, then consulted with a t-table at a significance level of 0.05, with df 48 of 1,677. The results show that the value of thing is greater than trabel ($15.400 > 1.677$). The ER gets a result of 45%, with a moderate effectiveness category. It is concluded that, learning outcomes in using the new LKPD are more effective than learning outcomes using the old LKPD. Through the learner response questionnaire, the score is 88% which is in the very practical category. The teacher's response received a result of 92 and was categorized as very effective and practical. The conclusion obtained is that the E-LKPD has been declared very valid, quite effective, and very practical to improve the learning outcomes of theme 7 subtheme 1 national events during the colonial period in grade V students at SDN Jember kidul.

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