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Development of Canva-Based Electronic Student Worksheets (E-LKPD) for Elementary School Students: A Systematic Literature Review

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Article

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Abstract

Education in the digital era demands learning media innovations that are not only informative but also interactive and capable of stimulating students' active engagement. At the elementary school level, the use of conventional Student Worksheets (LKPD) often faces various challenges, ranging from visual limitations and monotonous displays to students' low interest in reading and learning. The rapid development of information and communication technology has encouraged educators to transform printed LKPD into Electronic Student Worksheets (e-LKPD), which offer multimedia integration and more interactive learning experiences. This study aims to systematically review research findings related to the development of Canva-based e-LKPD in elementary schools. Specifically, this study seeks to identify the dominant development procedures, determine the validity level of Canva-based e-LKPD according to expert evaluations, and analyze its effectiveness in improving elementary school students' learning outcomes. The study employed a Systematic Literature Review (SLR) method by examining relevant research articles published between 2020 and 2026. The findings indicate that the ADDIE and 4D models are the most frequently used development models. The validity level of Canva-based e-LKPD consistently falls within the "Very Valid" category based on evaluations from material experts, media experts, and language experts. Furthermore, Canva-based e-LKPD has proven effective in improving students' learning outcomes across various subject areas.

INTRODUCTION

Education in the digital era requires innovations in learning media that are not only informative but also interactive and capable of stimulating students' active engagement. At the Elementary School (SD) level, the utilization of conventional Student Worksheets (LKPD) often encounters various obstacles, ranging from limited visual presentation, monotonous appearance, to students' low interest in reading and learning. This condition is further exacerbated by the lack of

independently developed learning media designed by educators to meet more specific and contextual learning needs.

The rapid development of information and communication technology has created opportunities for teachers to shift from printed LKPD to digital formats, commonly referred to as Electronic Student Worksheets (e-LKPD). e-LKPD offers several advantages, including the ability to integrate multimedia elements such as images, animations, audio, and video, as well as provide instant feedback to students.

One graphic design platform that is increasingly utilized in the development of e-LKPD is Canva. Canva is a web-based graphic design platform that provides thousands of ready-to-use templates, attractive visual elements, and collaborative features for educators. Its capability to integrate text, graphics, animations, and interactive links makes Canva an appropriate tool for creating aesthetically appealing, engaging, and functional e-LKPD. Teachers can utilize Canva without requiring advanced graphic design skills, making it highly accessible among elementary school educators.

Although research on Canva-based e-LKPD continues to grow, there are still limited studies that systematically summarize and synthesize findings from these various investigations. Therefore, this study was conducted using the Systematic Literature Review (SLR) method to address the following questions:

1. What are the dominant procedures used in developing Canva-based e-LKPD in elementary schools?
2. What is the validity level of Canva-based e-LKPD according to expert evaluations?
3. How effective is Canva-based e-LKPD in improving elementary school students' learning outcomes?

This systematic review is expected to provide a comprehensive overview of the development of Canva-based e-LKPD research at the elementary school level and serve as a reference for teachers, curriculum developers, and future researchers in developing digital learning media that are more innovative and responsive to the needs of digital-generation students.

LITERATURE REVIEW

2.1 E-LKPD in Learning in the Digital Era

Electronic Student Worksheets (e-LKPD) are digital instructional materials designed to help students construct understanding independently through a series of interactive tasks. Unlike printed LKPD, which are static in nature, e-LKPD offers flexibility in terms of access time and location, as well as the ability to provide immediate feedback that supports independent and adaptive learning (Actual

Insight, 2026). In the context of elementary school learning, e-LKPD also serves as a bridge between learning materials and students' cognitive abilities, which are still at the concrete operational stage.

Elementary school students today are identified as a generation of Digital Natives who have grown up alongside digital technology. They demonstrate a strong preference for dynamic visual content and learn through direct interaction with digital devices (Laela, 2024). Therefore, learning media must be capable of presenting information in a concrete, engaging, and interactive manner to facilitate their cognitive development stage. Well-designed e-LKPD can optimally fulfill these needs.

2.2 Canva Platform as an E-LKPD Design Tool

Canva is a cloud-based graphic design platform that enables users to create various forms of visual content intuitively without requiring professional design expertise. In the educational context, Canva provides thousands of customizable templates, including those for presentations, infographics, posters, and worksheets. The availability of features such as animation, hyperlinks, and video integration makes Canva highly relevant for developing multimedia-rich e-LKPD (Ideguru, 2026).

Another advantage of Canva is its ability to support real-time collaboration among users, allowing teachers to work together in developing instructional materials. Accessibility across multiple devices, including computers, tablets, and smartphones, further enhances its practicality within school environments. The high aesthetic quality of Canva-based e-LKPD is believed to increase the motivation and learning interest of elementary school students, who generally pay considerable attention to visually attractive content (Aspirasi, 2026).

2.3 Cognitive Theory of Multimedia Learning as a Foundation

The development of Canva-based e-LKPD is grounded in the Cognitive Theory of Multimedia Learning proposed by Richard Mayer. This theory states that individuals learn more effectively from a combination of words and images presented simultaneously than from words alone. Canva facilitates this principle through the integration of text, graphics, animations, and videos within a single cohesive medium (Mayer, 2009).

Furthermore, the spatial contiguity principle applied in Canva design helps reduce extraneous cognitive load by placing related text and images in close proximity. This maximizes the processing of essential information within students' working memory, making learning more meaningful and efficient, particularly for elementary school students whose working memory capacity is still developing.

2.4 Instructional Development Models: ADDIE and 4D

In research and development (R&D) studies concerning e-LKPD, two instructional development models dominate the literature: the ADDIE model and the 4D model. The ADDIE model consists of five stages: Analysis (analysis of needs and student characteristics), Design (product and instrument design), Development (development and production), Implementation (field testing), and Evaluation (evaluation and revision). This model is widely used because of its systematic and flexible nature, making it suitable for various instructional media development contexts.

Meanwhile, the 4D model developed by Thiagarajan et al. (1974) emphasizes four main stages: Define (identification of problems and objectives), Design (prototype design), Develop (development and validation), and Disseminate (distribution of the final product). The 4D model is particularly suitable for the development of instructional materials, including e-LKPD, because of its structured validation process and strong emphasis on product quality before dissemination.

METHOD

This study employed the **Systematic Literature Review (SLR)** method, which is a structured and comprehensive literature review approach used to identify, evaluate, and synthesize all research relevant to a specified topic. The SLR protocol in this study was designed to ensure the objectivity, transparency, and reproducibility of the literature search and selection process.

3.1 Literature Search Protocol

The literature search was conducted systematically in May 2026 through six major academic databases, namely Google Scholar, ResearchGate, Neliti, Jurnal Basicedu, Ideguru, and Portal Garuda. The keywords used in the search combinations included: **"E-LKPD," "Canva," "Elementary School," "Development,"** and **"R&D."**

Table 1. SLR Literature Search Protocol

Protocol Criteria	**Detailed Description**
Search Period	May 2026
Databases	Google Scholar, ResearchGate, Neliti, Jurnal Basicedu, Ideguru, Portal Garuda
Keywords	"E-LKPD", "Canva", "Elementary School", "Development", "R&D"
Publication Year Range	2020–2026

Protocol Criteria	Detailed Description
Inclusion Criteria	Journal Articles/Undergraduate Theses (2020–2026), focused on elementary schools, Canva-based, containing validity and/or effectiveness data
Exclusion Criteria	Articles not relevant to elementary schools, not using Canva, or not containing empirical data
Selection Results	45 Initial Articles → 15 Articles Selected for Synthesis

3.2 Article Selection Process

The article selection process was conducted in three stages. First, title and abstract screening was performed on the 45 articles identified through the literature search. Second, full-text screening was conducted on the articles that passed the initial stage. Third, verification was carried out to ensure compliance with the predetermined inclusion and exclusion criteria. Of the 45 initial articles, 15 met all the specified criteria and were selected as the primary data sources for synthesis in this study.

3.3 Data Analysis Technique

Data obtained from the 15 selected articles were analyzed using the **narrative synthesis** technique, which involves systematically identifying, comparing, and summarizing the findings of each study. The dimensions of analysis included: (1) the development models employed, (2) validity assessment results provided by material experts, media experts, and language experts, and (3) effectiveness data in the form of student learning outcomes across various subject areas.

In addition, a **SWOT analysis** was conducted to identify the strengths, weaknesses, opportunities, and threats associated with the implementation of Canva-based e-LKPD in elementary schools.

RESULTS AND DISCUSSION

4.1 Development Models of Canva-Based e-LKPD in Elementary Schools

Based on the synthesis of the 15 reviewed articles, it was found that there are two development models predominantly used in Canva-based e-LKPD development research in elementary schools, namely the ADDIE model and the 4D model. Both

models are selected because of their systematic and structured nature, as well as their clear validation stages before the product is implemented.

The ADDIE model was applied in the majority of studies due to its flexibility, which allows revisions at every stage of development. Meanwhile, the 4D model was more frequently adopted in studies oriented toward product dissemination, considering the presence of the Disseminate stage, which ensures that the product can be distributed more broadly. Both models have proven effective in producing high-quality e-LKPD, with the primary difference being the presence or absence of a formal dissemination stage.

Table 2. Comparison of ADDIE and 4D Development Models

Aspect	**ADDIE Model**	**4D Model**
Stages	Analysis, Design, Development, Implementation, Evaluation	Define, Design, Develop, Disseminate
Advantages	Systematic, flexible, includes evaluation at each stage	Structured, product-oriented, includes a dissemination stage
Focus	Iterative development process	Product quality and dissemination
Dominance of Use	More widely used in elementary school e-LKPD research	Used in studies oriented toward broader dissemination

4.2 Validity of Canva-Based e-LKPD

One indicator of e-LKPD product quality is the validation results provided by experts. Based on the synthesis of the 15 reviewed articles, all developed Canva-based e-LKPD products obtained validity ratings within the **"Very Valid"** category from three main types of validators, namely material experts, media experts, and language experts.

Table 3. Summary of Canva-Based e-LKPD Validity

Validator Type	**Percentage Range**	**Main Assessment Aspects**
Material Experts	85% – 96.36%	Alignment of content with Learning Outcomes (CP) and conceptual accuracy

Validator Type	Percentage Range	Main Assessment Aspects
Media Experts	83% – 100%	Visual aesthetics, readability, display quality, and navigation
Language Experts	77% – 91%	Writing conventions, language readability, and suitability for elementary school students
General Category	Very Valid	Product is feasible for implementation with little or no revision

The high validity scores achieved indicate that Canva, as a design platform, strongly supports the development of e-LKPD that meets academic and pedagogical standards. The flexibility of the available templates allows teachers to present materials in visually appealing ways without compromising content depth and accuracy. The language expert validity score reaching 91% also indicates that the grammar and sentence structures used in Canva-based e-LKPD can be easily adapted to suit the reading abilities of elementary school students.

4.3 Effectiveness of Canva-Based e-LKPD Across Subject Areas

The effectiveness analysis results indicate significant improvements in learning outcomes across various subject domains. The following summarizes the effectiveness data obtained from the article synthesis:

Table 4. Effectiveness Data of Canva-Based e-LKPD Across Subject Areas

Subject Area/Domain	Initial Condition	Final Condition	Description
Mathematics/Numeracy	28% (mastery level)	84% (mastery level)	Significant improvement in numeracy skills (Laela, 2024)
Science and Social Studies (IPAS)	38.26% (effectiveness)	81.53% (effectiveness)	PBL-based; improved retention of natural cycle concepts

Subject Area/Domain	Initial Condition	Final Condition	Description
Pancasila Education	41.53 (average score)	81.84 (average score)	Highly significant improvement in learning outcomes (Ideguru, 2026)
Social Studies	Pre-intervention	N-gain 0.73 (High)	Critical thinking skills reached a high category
Language (Indonesian/English)	Pre-intervention	Significantly improved	Improved procedural text writing and English reading skills

The effectiveness data above consistently demonstrate that the use of Canva-based e-LKPD has a significant positive impact on elementary school students' learning outcomes across various subjects. The increase in Mathematics learning mastery from 28% to 84% reflects very high effectiveness, as does the increase in IPAS effectiveness from 38.26% to 81.53%. Furthermore, the N-gain score of 0.73 in Social Studies, categorized as high, further strengthens the finding that Canva-based e-LKPD not only improves factual understanding but also enhances students' Higher Order Thinking Skills (HOTS).

4.4 Practicality and SWOT Analysis

In addition to validity and effectiveness, practicality is also an important indicator in assessing the quality of e-LKPD. Teachers' positive responses toward the use of Canva-based e-LKPD were very high, ranging from 92.5% to 100%, indicating that this medium is considered practical, easy to use, and relevant to classroom learning needs (Aspirasi, 2026).

Based on the SWOT analysis conducted on the reviewed literature, the following findings were obtained:

Table 5. SWOT Analysis of Canva-Based e-LKPD in Elementary Schools

SWOT Dimension	Description
Strengths	Attractive and professional visual appearance, thousands of free templates, ease of real-time collaboration among teachers, and comprehensive multimedia support
Weaknesses	Dependence on a stable internet connection, limitations of premium features without a paid subscription, and an initial learning curve for teachers unfamiliar with the platform
Opportunities	Integration with Artificial Intelligence (AI) for content personalization, development of adaptive e-LKPD, and potential collaboration among schools in sharing educational resources
Threats	Changes in platform access policies, digital infrastructure disparities in remote areas, and the risk of excessive dependence on a single platform

The SWOT analysis above indicates that although there are several weaknesses and threats, the strengths and opportunities offered by Canva-based e-LKPD are considerably more dominant. The primary weakness, namely dependence on internet connectivity, can be minimized through offline content preparation or by downloading learning materials in advance. Meanwhile, the opportunity for Artificial Intelligence (AI) integration within Canva presents substantial potential for the future development of more personalized and adaptive e-LKPD.

4.5 Comprehensive Discussion

The overall findings of this Systematic Literature Review (SLR) consistently confirm that Canva-based e-LKPD represents a highly valid, effective, and practical learning media innovation for implementation at the elementary school level. The high validity ratings provided by experts indicate that the developed e-LKPD products possess adequate content quality and visual presentation in accordance with academic standards. Their proven effectiveness across various subject areas and competency domains further strengthens their position as versatile instructional media with broad educational impacts.

These findings are consistent with previous studies demonstrating that visual-based digital learning media are more effective in improving students' motivation and learning outcomes than conventional instructional media. Particularly for elementary school students, who belong to the digital native generation, the use of learning media that are familiar to their digital lifestyles has been shown to reduce cognitive barriers and increase engagement in the learning process (Laela, 2024).
The highly positive responses from teachers (92.5%–100%) also serve as an important indicator that Canva-based e-LKPD not only benefits students but also facilitates teachers' work in preparing and delivering instructional materials. Canva's ability to accelerate the e-LKPD design process without compromising visual quality is one of the key factors driving its widespread adoption among educators (Ideguru, 2026). This is particularly important in the context of the increasingly complex workload faced by teachers during the implementation of the Merdeka Belajar curriculum.

CONCLUSION

Conclusions

Based on the results of the Systematic Literature Review conducted on 15 selected articles published between 2020 and 2026, the following conclusions can be drawn:

1. The ADDIE model and the 4D model are the most dominant methodologies used in the development of Canva-based e-LKPD in elementary schools, with complementary strengths that contribute to the production of high-quality learning materials.
2. The validity level of Canva-based e-LKPD, as assessed by experts, is exceptionally high, with material experts reporting scores ranging from 85%–96.36%, media experts from 83%–100%, and language experts from 77%–91%. All evaluations fall within the **"Very Valid"** category, indicating that the products are appropriate for implementation.
3. Canva-based e-LKPD has been proven to be significantly effective in improving elementary school students' cognitive learning outcomes across various subjects, including Mathematics, Science and Social Studies (IPAS), Pancasila Education, Social Studies, and language skills. Furthermore, it demonstrates a very high level of practicality, as reflected by teachers' positive responses ranging from 92.5% to 100%.

Recommendations

1. **For School Principals:** Schools should provide adequate digital infrastructure facilities and establish policies that support the

implementation of Canva-based e-LKPD as part of school learning digitalization programs.

2. **For Teachers:** Teachers should continuously enhance their digital competencies, particularly in optimizing Canva's advanced features such as animations, videos, and audio elements, to develop more interactive and engaging e-LKPD.
3. **For Future Researchers:** Future studies are encouraged to explore the integration of Artificial Intelligence (AI) within Canva to develop more adaptive and personalized e-LKPD. Additionally, broader research involving more grade levels and subject areas is needed to obtain a more comprehensive understanding of its effectiveness.

For Platform Developers: Canva is expected to continue improving support for offline content and provide more Indonesian-language educational features to enhance accessibility for teachers and students throughout Indonesia.

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