

9. Development of Powerpoint-Based Interactive Media on Theme 8 Subtheme 1 in Elementary School

by Febrina Dafit

Submission date: 20-May-2025 12:39AM (UTC+0700)

Submission ID: 2679931235

File name: Interactive_Media_on_Theme_8_Subtheme_1_in_Elementary_Schoo.pdf (606.48K)

Word count: 6665

Character count: 36857



Development of Powerpoint-Based Interactive Media on Theme 8 Subtheme 1 in Elementary School

Muhammad Nurkhodri^{1*}, Febrina Dafit² 

^{1,2} Faculty of Education and Teacher Training, Islamic University of Riau, Riau, Indonesia

ARTICLE INFO

Article history:

Received April 22, 2022

Revised April 29, 2022

Accepted July 14, 2022

Available online July 25, 2022

Kata Kunci:

Pengembangan; Media interaktif; Tematik

Keywords:

Development; interactive media; Thematic



This is an open access article under the CC BY-SA license.

Copyright © 2022 by Author.

Published by Universitas Pendidikan Ganesha.

ABSTRAK

Penggunaan media dalam pembelajaran di sekolah dasar merupakan bagian penting yang harus mendapat perhatian dari para pendidik. Penggunaan media interaktif sangat dibutuhkan oleh sekolah dasar agar pembelajaran yang diberikan menjadi lebih efektif dan efisien. Penelitian ini bertujuan untuk mengembangkan media interaktif berbasis powerpoint tema 8 subtema 1 di kelas III SD selama kegiatan pembelajaran offline. Penelitian ini merupakan penelitian pengembangan dan menggunakan model ADDIE. Jenis data yang diambil dari pengembangan ini adalah data kualitatif dan data kuantitatif. Populasi dalam penelitian ini adalah siswa kelas III. Uji coba yang dilakukan adalah uji coba skala terbatas dengan sampel 6 siswa dengan kategori skor belajar yang berbeda. Teknik pengumpulan data terdiri dari dua jenis, yaitu pertama angket respon guru dan siswa, kedua lembar validasi ahli materi, ahli media dan ahli bahasa. Berdasarkan hasil penelitian ahli media dengan total 93,33%, ahli materi dengan total 90,83% dan ahli bahasa dengan total 90,94% dan hasil keseluruhan 91,1% menyimpulkan sangat valid untuk digunakan sebagai bahan penelitian media pembelajaran. Hasil analisis tanggapan guru dengan total 94% dan siswa dengan total 88,33% dan total hasil 91,16% menyimpulkan bahwa media praktikum digunakan dalam kegiatan proses pembelajaran berlangsung.

ABSTRACT

The use of media in learning in elementary schools is an important part that must receive attention from educators. The use of interactive media is needed by elementary schools so that the learning provided becomes more effective and efficient. This study aims to develop interactive media based on powerpoint on the theme of 8 sub-theme 1 in class III of elementary school during offline learning activities. This research is a development research and uses the ADDIE model. The types of data taken from this development are qualitative data and quantitative data. The population of this research is third grade students. The trial conducted was a limited-scale trial with a sample of 6 students with different learning score categories. Data collection techniques consist of two types, namely the first teacher and student response questionnaire, second validation sheet material experts, media experts and linguists. Based on the results of research from media experts with a total of 93.33%, material experts with a total of 90.83% and linguists with a total of 90.94% and the overall results of 91.1% concluded that it is very valid to be used as a learning medium. The results of the analysis of teacher responses with a total of 94% and students with a total of 88.33% and the total results of 91.16% concluded that practical media were used in the learning process activities took place.

1. INTRODUCTION

Education is a person's effort to increase the potential that exists in him and occurs inside and outside educational institutions (Baharun, 2017; Garba et al., 2015). Based on Law Number 20 of 2003 concerning the National Education System, it defines curriculum as a set of plans and arrangements for objectives, content, and learning materials to achieve certain goals (Ahmad Agung Yuwono Putro et al., 2017; Hanik, 2020; Rosidin et al., 2019). From this understanding there are two dimensions of the curriculum, the first is the plan and arrangement of the objectives, content and learning materials and the second is the method used for the 2013 curriculum learning activities that are currently being used (Loudon, 2019; Nurtanto et al., 2021; Widodo, 2019). The 2013 curriculum demands that students be

*Corresponding author.

E-mail addresses: Khodri781@gmail.com (Muhammad Nurkhodri)

given the freedom to think, understand problems, develop problem-solving strategies, and present their ideas freely and openly when providing education (Mithen et al., 2021; Ramadoni et al., 2019; Sari et al., 2019). The 2013 curriculum makes thematic learning the main guide in the learning process in elementary school units.

Elementary schools make thematic learning one of the subjects that must be taught starting from grade 1 to grade 6 (Margunayasa et al., 2019; Mohamad et al., 2020; Murniyetti et al., 2016). Thematic subjects themselves are an integrated learning model with learner-centered characteristics that do not separate subjects from one another (Ulfah, 2019; Wardani & Syofyan, 2018; Yunita & Kristiyanto, 2021). In the learning process, educators usually use instructional media as a supporting tool. The development of technology in the world of education makes education more colourful (Anggraeni et al., 2019; Jamaludin & Hung, 2017; Saptano et al., 2021). The level of understanding and activeness of students can be assessed from the quality of teaching and learning media chosen by an educator, the media is in the form of supporting devices that can assist educators in delivering the material they teach (Moradi & Chen, 2019; I. A. Nugroho & Surjono, 2019; Renes & Strange, 2010). The use of media in learning in elementary schools is an important part that must receive attention from educators (Djannah et al., 2021; Prastika & Masniladevi, 2021; Rahayu et al., 2021). Seeing advances in technology and communication in the field of education, providing benefits for educators in developing learning media, many schools have provided learning media to support educators in teaching activities and to overcome problems or obstacles that exist in learning activities (Gelen Assoc, 2018; Suryani et al., 2020; Yunita & Kristiyanto, 2021).

Learning activities in the 2021/2022 academic year are experiencing problems in terms of holding face-to-face learning, this is because the world is being hit by the Covid-19 pandemic crisis, causing learning to be carried out offline and online (Handarini & Wulandari, 2020; Kundu & Bej, 2021; Puspitasari, 2020). There are obstacles/difficulties in the implementation of online and offline learning in terms of human resources and infrastructure (Efriana, 2021; Putri et al., 2020; Rahmah et al., 2019). Limited network access, lack of awareness and interest are the main challenges faced by educators (Alenezi, 2020; Yuzulia, 2021). This is thought to be one of the causes of the inhibition of students' creativity and independence, thereby reducing thematic learning achievement. In addition, it is a problem for teachers to choose teaching methods and media that do not attract students' attention in learning (Cengiz et al., 2011; Qekaj-Thaqi & Thaqi, 2021; Rajendra & Sudana, 2017). This results in low student learning outcomes. The use of interactive media is needed by elementary schools so that the learning provided becomes more effective and efficient (Dewanti et al., 2021; I. A. Nugroho & Surjono, 2019; Saripudin et al., 2021). Interactive media is a type of multimedia display, formed with the aim of being able to provide information display and interaction processes for users (Khazaal, 2015; Saputri et al., 2018). Interactive media is a means or various physical tools used to facilitate communication between educators and a group of students in learning situations (Husnaini & Chen, 2019; Valverde-Berrocso et al., 2021). Media as a component of the learning system has a different function from other components (Nasution et al., 2021). In other words, it is a component that contains learning messages that are conveyed to students. In the learning process, the media can function well if it is available individually or in groups. There are still many advantages of using interactive media to increase student motivation, and train students to be more independent in gaining knowledge (Rajendra & Sudana, 2017; Tiarasari et al., 2018).

It is in line with previous research that state Microsoft Powerpoint is an application prepared by Microsoft for presentations to a limited audience (Adams Ogirima & Onyieche Emilia, 2018; Bahadur & Boodun, 2013; Shigli et al., 2016). This application is equipped with complete features and menus to make presentations as attractive as possible. The use of Microsoft PowerPoint in the classroom must use the support of tools such as laptops, LCD projectors and speakers. our presentation. The functions and uses of PowerPoint according to other previous research are firstly bringing more energy and visual impact, secondly adding to the personal video experience. Third, access more locations and more devices, third, make high-quality presentations with graphic views, fourth, organize and print your slides more effectively, and fifth, get work done faster (Bartsch & Cobern, 2003; Gambari et al., 2015; Hadiyanti & Widya, 2018). Therefore, researchers are interested in developing interactive powerpoint-based media because this media can help teachers maximize the use of existing facilities in schools which can then help teachers improve student learning outcomes on thematic subjects in class III at SDN 021 Kepau Jaya . The media that the researcher developed is interactive media based on powerpoint, a media tool that helps teachers in explaining learning materials, both oral and written materials, in this media contains material that can involve students in the process of using it so that students are interested and make students happy when the learning process takes place.

2. METHOD

The type of this research is development research with ADDIE model research design and using qualitative and quantitative approach in data processing. The research design of the ADDIE model itself is a research design consisting of the analysis stage, design stage, development stage, implementation stage, and evaluation stage (Marji, 2020). In this study, it was only carried out until the implementation stage to see how the practicality of the media developed. The researcher chose this research design because it fits the research question and the purpose of this study. The population of this research is third grade students at SDN 021 Kepau Jaya, Siak Hulu District, Kampar Regency, Riau Province for the 2021/2022 academic year who have different characteristics. The trial conducted was a limited-scale trial with a sample of 6 students with categories of 2 students having low learning scores, 2 students having moderate learning scores, and 2 students having high learning scores.

The instruments used in this study were interview questionnaires, validity questionnaires and teacher and student response questionnaires. The interview questionnaire was used to find out the problems of teachers and students during online and offline learning. The validity questionnaire is a questionnaire that aims to assess and revise the developed media product, this validity questionnaire is filled out by 6 experts consisting of 2 media experts, 2 material experts and 2 linguists, from the suggestions of the six experts then the media will be revised according to the suggestions that have been given. The teacher and student response questionnaire aims to find out what is the practicality of the media that has been produced, to fill out the student response questionnaire a yes or no checklist system is used for statements that according to him are appropriate, this is due to assessing the condition of the characteristics of elementary school students. Data from the results of product feasibility measured using a Likert scale measurement. Using a Likert Scale, the variables will become dimensions, the dimensions become sub-variables, the variables will be explained back into indicators that can be measured (Joshi et al., 2015).

3. RESULT AND DISCUSSION

Result of Study

The focus of this research is to develop and produce powerpoint-based interactive media in order to overcome the problems faced by teachers and students, the media created will be validated first by 6 experts, namely linguists, media experts and material experts. This study uses the ADDIE model which consists of:

Analysis stage

In this stage, the analytical step is to collect data and information related to problems in learning at SDN 021 Kepau Jaya. The stages of curriculum analysis and needs analysis, as for the analysis are divided into 1) Curriculum Analysis, curriculum analysis was conducted to determine the KI and KD used in the learning process in class III B at SDN 021 Kepau Jaya. Then include the material that will be loaded in powerpoint-based interactive media according to the material that will be taught by the teacher. The material contained in this research media is the theme of 8 scouts with subtheme 1 I am a member of the scouts in learning 1, 2 and 3 which consists of Indonesian language, PPKn, mathematics and SBdP subjects. 2.) Needs Analysis, the needs analysis was carried out aiming to find out what researchers needed to provide to find solutions to the problems faced by teachers and students, needs analysis was carried out through interviews with class III B teachers at SDN 021 Kepau Jaya and class III B students at SDN 021 Kepau Jaya. The problem or teacher needs in the learning process related to the media is that the media used is still conventional in the form of images, this of course makes the process of implementing learning passive and less attractive to students.

Design stage

Design is the design stage of interactive powerpoint-based media display which will be developed on the theme of 8 Scouts with subtheme 1 I am a scout member in learning 1, 2 and 3. At this stage, the design of the media is adjusted to the characteristics of students. Furthermore, the researchers determined the software used in making interactive media based on powerpoint, namely Microsoft PowerPoint. At this stage, the researcher makes an initial design of what will be conveyed to the media. Researchers began to collect slide backgrounds, character images, music background, videos that will be used and verify the material to be included in the powerpoint slides. Then proceed with the process of making powerpoint-based interactive media along with an overview of the design stage. Main menu page is show in Figure 1.



Figure 1. Menu Page

Base on Figure 1 the menu page is the opening part of interactive powerpoint-based media that contains the name of the school, class, theme name, sub-theme name, and the creator of the media. The sub-theme page is show in Figure 2.



Figure 2. Sub-theme page

Base on Figure 2. It show sub-theme page, it is part of the opening of powerpoint-based interactive media, in this section it contains lessons 1 to 3.

14 Development Stage

The development stage is the interactive media production stage that has been designed at the design stage and validation testing is carried out in the form of the feasibility of the learning media that will be developed. Researchers use Microsoft PowerPoint 2013 software in creating and running PowerPoint media. On the Material Validator. In the material expert validation this material expert validator was asked to conduct an assessment of the content aspect 7 the interactive media product based on PowerPoint on theme 8 sub-theme 1 in learning 1,2 and 3. The results of the assessment of material aspects can be seen in Table 1.

Table 1. Material Validation Results

No.	Validator	Percentage %		Category	
		Validation 1	Validation 2	Validation 1	Validation 2
1.	Lamra Hairani, M.Pd	93,33%	-	Very Valid	-
2.	Sarmini, S.Pd	93,33%	-	Very Valid	-
Amount		93,33%	-	Very Valid	-

Table 1 is the results of the assessment in the aspect of learning materials that are loaded in interactive media products based on powerpoint on theme 8 sub-theme 1, the total percentage of validator 1 has a percentage of 93.33% which is declared Very Valid and validator 2 gets a percentage of 93.33% which is declared Very Valid with a total number of the two validators, namely 93.33% which is

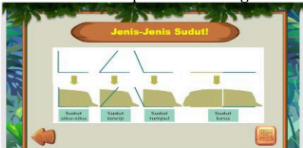



declared Very Valid and does not need to be revised and is worthy of a limited-scale trial. In the validation of linguists, this media expert validator was asked to evaluate the display aspect of powerpoint-based interactive media products on 8 sub-theme 1. The results of the media aspect assessment can be seen in Table 2.

Table 2. Media Validation Results

No.	Validator	Percentage %		Category	
		Validation 1	Validation 2	Validation 1	Validation 2
1.	Dr. Neni Hermita, S.Pd, M.Pd.	75,71%	91,66%	Valid	Very Valid
2.	Eddy Noviana, S.Pd.,M.Pd.	70%	90 %	Valid	Very Valid
Amount		72,85%	90,83%	Valid	Very Valid

Base on Table 2 in the validation section 1 is the result of the assessment in the aspect of display and programming of interactive media products based on powerpoint on theme 8 sub-theme 1, obtained the percentage of validator 1 has a percentage of 75.71% which is declared valid and validator 2 is obtained 70% which is declared valid with the total number of the two validators, namely 72.85% which is declared valid and needs to be revised again as for the revision suggestions given by the two validators are show in Table 3.

Table 3. Results of the Revised Validator

No	Before Revised	After Revised
1.	Animate Shapes corner images 	
2.	Add the name of the supervisor on their menu 	
3.	Background sound reduced volume	Background volume changed to medium

Based on Table 3, suggestions from the two validators, the researchers revised the animation movement that forms the corner image and added the name of the supervisor to the media maker, after the product was repaired, a second validation was carried out. On the validation of linguists the linguist validator was asked to conduct an assessment on aspects of language use in powerpoint-based interactive media products on 8 sub-themes 1. The results of the assessment of media aspects can be seen in Table 4.

Table 4. Language Validation Results

No.	Validator	Percentage %		Category	
		Validation 1	Validation 2	Validation 1	Validation 2
1.	Otang Kurniaman, M.Pd	68,88%	88,88%	Valid	very valid
2.	Bonni Safitri, S.Pd.	77,77%	93,33%	Valid	very valid
Amount		73,33%	90,94%	Valid	very valid

Table 4 in the first validation section is the result of the assessment in the use of language in powerpoint-based interactive media products on theme 8 sub-theme 1, the total percentage of validator 1

has a percentage of 68.88% which is declared valid and validator 2 is obtained 77.77% which is declared Valid with the total number of the two validators, namely 73.33% which is declared valid and needs to be revised again as for the revision suggestions given by the validator are show in Table 5.

Table 5. Results of the Revised Validator



No	Before Revised	After Revised
1.	Use effective language that is easy for 3rd graders to understand	
		
		

Table 5 show the suggestions from the two validators, the researchers revised the use of language used in media products that are useful for conveying material effectively at the level of understanding of third graders. Second validation section is the result of validation 2 by linguists on interactive media based on powerpoint on theme 8 sub-theme 1, the total percentage of validator 1 has a percentage of 88.88% which is declared Very Valid and validator 2 is obtained 93.33% which declared Very Valid with the total number of the two validators, namely 90.94% which was declared Very Valid and worthy of a limited scale trial. The validation results from all aspects obtained from 6 validators can be seen in Table 6.

Table 6. Data Recapitulation

Rated aspect	Presentase Validitas (%)	
	Validation I	Validation II
Material Format	93,33%	-
Media Formats	72,85%	90,83%
Language Format	73,33%	90,94%
Amount	79,83%	90,88%

Based on Table 6 show the expert team's assessment of all aspects of learning media by material experts, media experts, and linguists in the first validation and second validation, it can be presented in the Figure 3. Based on Figure 3, it can be concluded that there is an increase in the quality of the media produced after validation by experts, namely: material experts, media experts and linguists, the input and suggestions provided were very useful in order to produce valid media for use by teachers and third grade students in elementary schools.

Implementation Phase

At this implementation stage, a practical test was conducted for teachers and students to assess practical powerpoint-based interactive media to be used in the learning process. This practical activity is carried out by the teacher trying to use media that has been valid which is then displayed in front of 6 students of class III B of which the 6 people consist of 2 people with low scores, 2 people with medium scores and 2 more people with high scores. Then the teacher and students were asked to fill out the teacher and student response questionnaire sheets that had been prepared, while the purpose of the trial was to see and get data about the students' responses to the media that had been created, namely interactive powerpoint-based media on theme 8 sub-theme 1. The data on the results of student responses to the Practicality of Media Development from the limited-scale trials carried out can be seen in Table 7.

Table 7. Student Responses to Practicalities

No	Name	Amount	Attractiveness Score (%)	Category
1	Alvin Afriando	8	80%	Practical
2	Arya Prasetyo	9	90%	Very Practical
3	Intan Listiani	10	100%	Very Practical
4	Nova Avrianty	8	80%	Practical
5	Rifqi Al Hafidz	10	100%	Very Practical
6	Selvi Okta Salsabila	8	80%	Practical
Amount		53	88,33%	Very Practical

Table 7 shows the data obtained from the assessment results of 6 3rd grade students at SDN 021 Kepau Jaya, namely 3 students who gave very practical assessments, and 3 other students gave practical assessments. In a small-scale trial at SDN 021 Kepau Jaya with a total score of 53 for each statement and getting a percentage result of 88.33% with very practical criteria. Then the data on the results of the teacher's response to the practicality of the media from the limited scale trials carried out can be seen from Table 8.

Table 7. Teacher's Response to Practicality

No	Name	Attractiveness Score (%)	Category
1	Sarmini, S.Pd	92%	Very Practical
2	Bonni Safitri, S.Pd.	96%	Very Practical
Amount		94%	Sangat Praktis

Table 8 shows the data obtained from the assessment results from 2 homeroom teachers for grade 3A and 3B students at SDN 021 Kepau Jaya, namely the homeroom teacher for class 3A, Mrs. Sarmini S.Pd, who gave an assessment with a percentage value of 92% with a very practical category, and Mrs. Bonni Safitri. S.Pd gave an assessment with a percentage value of 96% in the Very Practical category. From the two respondents, a total attractiveness score of 94% was obtained in the Very Practical category.

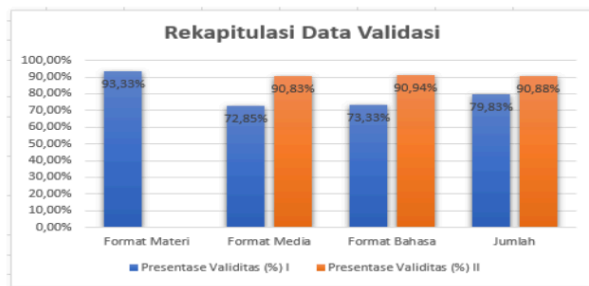


Figure 3. Data Validation Recapitulation

Discussion

The research is develop and produce powerpoint-based interactive media in order to overcome the problems faced by teachers and students, the media created will be validated first by 6 experts, namely linguists, media experts and material experts. Base on the two validators, the researchers revised the use of language used in media products that are useful for conveying material effectively at the level of understanding of third graders. Second validation section is the result of validation 2 by linguists on interactive media based on powerpoint on theme 8 sub-theme 1, the total percentage of validator 1 has a percentage of 88.88% which is declared Very Valid and validator 2 is obtained 93.33% which declared Very Valid with the total number of the two validators, namely 90.94% which was declared Very Valid and worthy of a limited scale trial. Moreover at the implementation stage, a practical test is conducted for teachers and students to assess the practice of interactive powerpoint-based media that will be used in the learning process. Teachers and students were asked to fill out the teacher and student response

questionnaire sheets that had been prepared, while the purpose of the trial was to view and obtain data about student responses to the media that had been made. The data from the students' responses to the learning media received a good response with a response stating that it was practical and very effective.

It is in line with previous study that aimed at developing a learning media based on Information and Communication Technology (ICT), especially PowerPoint, for the integrated thematic instruction (Putra et al., 2019). The results showed that there was a significant improvement in students' learning outcomes from 68.94 to 76.72. In addition, the PowerPoint-based learning media gave a positive effect to students in which they felt very happy when using it. It is reinforced by other researcher that conducted study to describe PowerPoint-based interactive multimedia products in learning multiple material mathematics (S. A. Nugroho et al., 2022). The result concluded that PowerPoint-based interactive multimedia products are developed and feasible for use in Class IV elementary mathematics learning multiple materials and factors.

The implication of this study is making powerpointbased learning media on the theme 1 and subtheme 8 also build students' positive attitudes toward the media used. All students feel happy learning using the PowerPoint-based learning media. Learning by using the PowerPoint-based media also provides efficacy for students in understanding the contents presented because it creates dynamic learning in the classroom. The limitation of this study was only carried out until the implementation stage to see how the practicality of the media developed, it is hoped that subsequent researchers will be able to present a more complex and in-depth Powerpoint-Based Interactive Media on Subtheme in Elementary School development.

4. CONCLUSION

Powerpoint-based interactive media get a very good assessment based on the total score from the experts. It can be concluded that the powerpoint-based interactive media developed is feasible to use in the learning process. This powerpoint-based interactive media can make it easier for teachers to convey information to students and can increase student activity in the online and offline learning process. Moreover powerpoint based learning media on the theme 1 and subtheme 8 also build students' positive attitudes toward the media used.

5. REFERENCES

- Adams Ogirima, O., & Onyieche Emilia, O. (2018). Effect of Powerpoint Presentation on Students' Cognitive Achievement in Geography. *Romanian Review of Geographical Education*, 3(VII/1), 46–60. <https://doi.org/10.23741/rrge120184>.
- Ahmad Agung Yuwono Putro, A., Suyanto, S., & Yoyon Suryono, Y. (2017). Educational Management for Elementary Based on Baiquiniyyah Koranic School. *Advances in Economics, Business and Management Research*, 45(CoEMA), 132–137. <https://doi.org/10.2991/coema-17.2017.22>.
- Alenezi, A. (2020). The role of e-learning materials in enhancing teaching and learning behaviors. *International Journal of Information and Education Technology*, 10(1), 48–56. <https://doi.org/10.18178/IJJET.2020.10.1.1338>.
- Anggraeni, H., Fauziyah, Y., & Fahyuni, E. F. (2019). Penguatan Blended Learning Berbasis Literasi Digital Dalam Menghadapi Era Revolusi Industri 4.0. *Al-Idarah : Jurnal Kependidikan Islam*, 9(2), 190–203. <https://doi.org/10.24042/alidarrah.v9i2.5168>.
- Bahadur, G. K., & Boodun, S. S. (2013). Using powerpoint presentations as a tool for effective teaching and learning of water science for upper primary pupils in mauritius. *International Journal of Science, Mathematics and Technology Learning*, 19(2), 65–78. <https://doi.org/10.18848/2327-7971/cgp.v19i02/48988>.
- Baharun, H. (2017). Total Moral Quality: A New Approach for Character Education in Pesantren. *Ulumuna*, 21(1), 57–80. <https://doi.org/10.20414/ujis.v21i1.1167>.
- Bartsch, R. A., & Cobern, K. M. (2003). Effectiveness of PowerPoint presentations in lectures. *Computers & Education*, 41(1), 77–86. [https://doi.org/10.1016/S0360-1315\(03\)00027-7](https://doi.org/10.1016/S0360-1315(03)00027-7).
- Cengiz, N., Kline, K., & Grant, T. J. (2011). Extending students' mathematical thinking during whole-group discussions. *Journal of Mathematics Teacher Education*, 14(5), 355–374. <https://doi.org/10.1007/s10857-011-9179-7>.
- Dewanti, P., Supuwiningsih, N. N., & Saridewi, D. P. (2021). Utilizing Educational Technologies to Optimize Student and Teacher Learning at Dharma Laksana Mataram Orphanage. *Journal of Innovation and Community Engagement*, 2(1), 11–20. <https://doi.org/10.28932/jice.v2i1.3601>.

- Djannah, M., Zulherman, & Nurafni. (2021). Kahoot Application for Elementary School Students: Implementations of Learning Process from Distance during Pandemic period of COVID 19. *Journal of Physics: Conference Series*, 1783(1). <https://doi.org/10.1088/1742-6596/1783/1/012121>.
- Efrian, L. (2021). Problems of online learning during Covid-19 Pandemic in EFL classroom and the solution. *JELITA: Journal of English Language Teaching and Literature*, 2(1), 38–47. <https://jurnal.stkipmb.ac.id/index.php/jelita/article/view/74>.
- Gambari, A. I., Yusuf, H. T., & Balogun, S. A. (2015). Effectiveness of PowerPoint Presentation on Students' Cognitive Achievement in Technical Drawing. *Malaysian Online Journal of Educational Technology*, 3(4), 1–12. <https://eric.ed.gov/?id=EJ1085923>.
- Garba, S. A., Byabazaire, Y., & Busthami, A. H. (2015). Toward the use of 21st century teaching-learning approaches: The trend of development in Malaysian schools within the context of Asia Pacific. *International Journal of Emerging Technologies in Learning*, 10(4), 72–79. <https://doi.org/10.3991/ijet.v10i4.4717>.
- Gelen Assoc, I. (2018). Academicians' Predictions Of 21 St Century Education And Education In The 21 St Century. *European Journal of Education Studies*, 4, 165–204. <https://doi.org/10.5281/zenodo.1233478>.
- Hadiyanti, K. M. W., & Widya, W. (2018). Analyzing the Values and Effects of Powerpoint Presentations. *Language and Language Teaching Journal*, 21(Supplement), 87–95. <https://doi.org/10.24071/llt.2018.suppl2108>.
- Handarini, O. I., & Wulandari, S. S. (2020). Pembelajaran Daring Sebagai Upaya Study From Home (SFH). *Jurnal Pendidikan Administrasi Perkantoran (JPAP)*, 8(3), 465–503. <https://journal.unesa.ac.id/index.php/jpap/article/view/8503>.
- Hanik, E. U. (2020). Self Directed Learning Berbasis Literasi Digital Pada Masa Pandemi Covid-19 di Madrasah Ibtidaiyah. *Elementary: Islamic Teacher Journal*, 8(1), 183–208. <https://doi.org/10.21043/elementary.v8i1.7417>.
- Husnaini, S. J., & Chen, S. (2019). Effects of guided inquiry virtual and physical laboratories on conceptual understanding, inquiry performance, scientific inquiry self-efficacy, and enjoyment. *Physical Review Physics Education Research*, 15(1). <https://doi.org/10.1103/PhysRevPhysEduRes.15.010119>.
- Jamaludin, A., & Hung, D. (2017). Problem-solving for STEM learning: navigating games as narrativized problem spaces for 21 st century competencies. *Research and Practice in Technology Enhanced Learning*, 12(1), 1–14. <https://doi.org/10.1186/s41039-016-0038-0>.
- Joshi, A., Kale, S., Chandel, S., & Pal, D. (2015). Likert Scale: Explored and Explained. *British Journal of Applied Science & Technology*, 7(4), 396–403. <https://doi.org/10.9734/bjast/2015/14975>.
- Khazaal, H. F. (2015). Problem Solving Method Based On E-Learning System For Engineering Education. *Journal of College Teaching & Learning (TLC)*, 12(1), 1–12. <https://doi.org/10.19030/tlc.v12i1.9066>.
- Kundu, A., & Bej, T. (2021). Experiencing e-assessment during COVID-19: an analysis of Indian students' perception. *Higher Education Evaluation and Development*, 15(2), 114–134. <https://doi.org/10.1108/heed-03-2021-0032>.
- Loudon, G. (2019). Integrating ideas from design disciplines into the STEM curricula. *Higher Education Pedagogies*, 4(1), 284–286. <https://doi.org/10.1080/23752696.2019.1599688>.
- Margunayasa, I. G., Dantes, N., Marhaeni, A. A. I. N., & Suastra, I. W. (2019). The Effect of Guided Inquiry Learning and Cognitive Style on Science Learning Achievement. *International Journal of Instruction*, 12(1), 737–750. <https://doi.org/10.29333/iji.2019.12147a>.
- Marji. (2020). Interactive Multimedia Development Engine Management System (EMS) Using The Addie Model. *Palarch's Journal Of Archaeology Of Egypt/Egyptology*, 17(4), 609–629. <https://archives.palarch.nl/index.php/jae/article/download/396/473>.
- Mithen, Onesimus, Arfandi, A., Raeny, & Rahmansah. (2021). Science teachers abilities in integrating population and environmental education with science subjects of junior high school in Mamasa regency, Indonesia. *Jurnal Pendidikan IPA Indonesia*, 10(1), 81–91. <https://doi.org/10.15294/jpii.v10i1.27012>.
- Mohamad, M., Arif, F. K. M., Alias, B. S., & Yunus, M. M. (2020). Online game-based formative assessment: Distant learners post graduate students' challenges towards quizizz. *International Journal of Scientific and Technology Research*, 9(4), 994–1000. https://www.researchgate.net/profile/Monaim-Mohamad-2/publication/348201276_Online_game-based_formative_assessment_Distant_learners_post_graduate_students'_challenges_towards_quizi

- [zz/links/60c30050299bf1949f499c4a/Online-game-based-formative-assessment-Distant-learners-post-graduate-students-challenges-towards-quizizz.pdf](https://links/60c30050299bf1949f499c4a/Online-game-based-formative-assessment-Distant-learners-post-graduate-students-challenges-towards-quizizz.pdf).
- Moradi, H., & Chen, H. (2019). Digital storytelling in language education. *Behavioral Sciences*, 9(12), 1–9. <https://doi.org/10.3390/bs9120147>
- Murniyetti, M., Engkizar, E., & Anwar, F. (2016). Pola Pelaksanaan Pendidikan Karakter Terhadap Siswa Sekolah Dasar. *Jurnal Pendidikan Karakter*, 6(2), 156–166. <https://doi.org/10.21831/jpk.v6i2.12045>.
- Nasution, M. I. S., Lubis, H. S. D., Tanjung, Y., & Nasution, A. A. B. (2021). Development of Infographic-Based Minimum Competency Assessment Instruments For High School Students In Medan City. *International Journal of Educational Research & Social Sciences*, 2(6), 1439–1450. <https://www.ijersc.org/index.php/go/article/download/198/208>.
- Nugroho, I. A., & Surjono, H. D. (2019). Pengembangan multimedia pembelajaran interaktif berbasis video materi sikap cinta tanah air dan peduli lingkungan. *Jurnal Inovasi Teknologi Pendidikan*. <https://doi.org/10.21831/jitp.v6i1.15911>.
- Nugroho, S. A., Trisniawati, T., & Rhosyida, N. (2022). Developing powerpoint-based interactive multimedia of mathematics learning multiples and factors materials for elementary school. *Advances in Mobile Learning Educational Research*, 2(2), 411–420. <https://doi.org/10.25082/AMLER.2022.02.009>.
- Nurtanto, M., Kholifah, N., Masek, A., Sudira, P., & Samsudin, A. (2021). Crucial Problems in Arranged The Lesson Plan of Vocational Teacher. *International Journal of Evaluation and Research in Education (IJERE)*, 10(1), 345–354. <https://doi.org/10.11591/ijere.v10i1.20604>.
- Prastika, Y., & Masniladevi. (2021). Pengembangan E-LKPD Interaktif Segi Banyak Beraturan dan Tidak Beraturan Berbasis Liveworksheets Terhadap Hasil Belajar Peserta Didik Kelas IV Sekolah Dasar. *Journal of Basic Education Studies*, 4(1), 4–14. <https://www.ejurnalunsam.id/index.php/jbes/article/view/3817>.
- Puspitasari, N. (2020). Analisis proses pembelajaran dalam jaringan masa pandemi covid 19 pada guru. *Magistra: Media Pengembangan Ilmu Pendidikan Dasar Dan Keislaman*, 11(2). <https://doi.org/10.31942/mgs.v11i2.3943>.
- Putra, Z. H., Witri, G., & Yulita, T. (2019). Development of powerpoint-based learning media in integrated thematic instruction of elementary school. *International Journal of Scientific and Technology Research*, 8(10), 697–702. https://www.researchgate.net/profile/Zetra-Putra-2/publication/336576652_Development_of_Powerpoint-based_learning_media_in_integrated_thematic_instruction_of_elementary_school/links/5da67505299bf1c1e4c37b6b/Development-of-Powerpoint-based-learning-media-in-integrated-thematic-instruction-of-elementary-school.pdf.
- Putri, C. D., Pursitasari*, I. D., & Rubini, B. (2020). Problem Based Learning Terintegrasi STEM Di Era Pandemi Covid-19 Untuk Meningkatkan Keterampilan Berpikir Kritis Siswa. *Jurnal IPA & Pembelajaran IPA*, 4(2), 193–204. <https://doi.org/10.24815/jipi.v4i2.17859>.
- Qekaj-Thaqi, A., & Thaqi, L. (2021). The Importance of Information and Communication Technologies (ICT) during the COVID-19—Pandemic in Case of Kosovo (Analytical Approach of Students Perspective). *OALib*, 08(07), 1–15. <https://doi.org/10.4236/oalib.1106996>.
- Rahayu, N. D., Zulherman, & Yatri, I. (2021). Animated Video Media Based on Adobe After Effects (AEF) Application: An Empirical Study for Elementary School Students. *Journal of Physics: Conference Series*, 1783(1), 012116. <https://doi.org/10.1088/1742-6596/1783/1/012116>.
- Rahmah, N., Lestari, A., Musa, L. A. D., & Sugilar, H. (2019). Quizizz Online Digital System Assessment Tools. *Proceeding of 2019 5th International Conference on Wireless and Telematics, ICWT 2019*, 3–6. <https://doi.org/10.1109/ICWT47785.2019.8978212>.
- Rajendra, I. M., & Sudana, I. M. (2017). The Influence of Interactive Multimedia Technology to Enhance Achievement Students on Practice Skills in Mechanical Technology. *Journal of Physics*, 953, 1–5. <https://doi.org/10.1088/1742-6596/953/1/012104>.
- Ramadoni, A., Yulkifli, & Ratnawulan. (2019). Development of physics module SMA/MA integrated character values based on discovery learning models with approach science process skills. *Journal of Physics: Conference Series*, 1185(1). <https://doi.org/10.1088/1742-6596/1185/1/012068>.
- Renes, S. L., & Strange, A. T. (2010). Using Technology to Enhance Higher Education. *Innovative Higher Education*, 36(3), 203–213. <https://doi.org/10.1007/s10755-010-9167-3>.
- Rosidin, U., Herpratiwi, Suana, W., & Firdaos, R. (2019). Evaluation of National Examination (UN) and National-Based School Examination (USBN) in Indonesia. *European Journal of Educational Research*, 8(3), 827–837. <https://doi.org/10.12973/eu-jer.8.3.827>.

- Saptono, B., Herwin, H., & Firmansyah, F. (2021). Web-based evaluation for teacher professional program: Design and development studies. *World Journal on Educational Technology: Current Issues*, 13(4), 672–683. <https://doi.org/10.18844/wjet.v13i4.6253>.
- Saputri, D. Y., Rukayah, R., & Indriayu, M. (2018). Need Assessment of Interactive Multimedia Based on Game in Elementary School: A Challenge into Learning in 21st Century. *International Journal of Educational Research Review*, 3(3), 1–8. <https://doi.org/10.24331/ijere.411329>.
- Sari, D. A., Ellizar, E., & Azhar, M. (2019). Development of problem-based learning module on electrolyte and nonelectrolyte solution to improve critical thinking ability. *Journal of Physics: Conference Series*, 1185(1). <https://doi.org/10.1088/1742-6596/1185/1/012146>.
- Saripudin, D., Komalasari, K., & Anggraini, D. N. (2021). Value-Based Digital Storytelling Learning Media to Foster Student Character. *International Journal of Instruction*, 14(2), 369–384. <https://doi.org/10.29333/iji.2021.14221a>.
- Shigly, K., Agrawal, N., Nair, C., Sajjan, S., Kakodkar, P., & Hebbal, M. (2016). Use of PowerPoint presentation as a teaching tool for undergraduate students in the subject of gerodontology. *Journal of Indian Prosthodontist Society*, 16(2), 187–192. <https://doi.org/10.4103/0972-4052.167940>.
- Suryani, M., Jufri, L. H., & Putri, T. A. (2020). Analisis Kemampuan Pemecahan Masalah Siswa Berdasarkan Kemampuan Awal Matematika. *Mosharafa: Jurnal Pendidikan Matematika*, 9(1), 119–130. <https://doi.org/10.31980/mosharafa.v9i1.605>.
- Tiarasari, A. T., Sukarno, S., & Sarwanto, S. (2018). Interactive Multimedia Use To Increase Learning Interest. *Social, Humanities, and Educational Studies (SHEs): Conference Series*, 1(1), 38–47. <https://doi.org/10.20961/shes.v1i1.23540>.
- Ulfah, A. (2019). Pengembangan Media Pembelajaran Kartik (Kartu Tematik) Tema 8 Keselamatan Di Rumah Dan Di Perjalanan Bagi Siswa Sekolah Dasar Kelas Ii. *Profesi Pendidikan Dasar*, 1(2), 211–224. <https://doi.org/10.23917/ppd.v1i2.9067>.
- Valverde-Berrococo, J., Fernández-Sánchez, M. R., Domínguez, F. I. R., & Sosa-Díaz, M. J. (2021). The educational integration of digital technologies preCovid-19: Lessons for teacher education. *PLoS ONE*, 16(8 August), 1–22. <https://doi.org/10.1371/journal.pone.0256283>.
- Wardani, R. K., & Syofyan, H. (2018). Pengembangan Video Interaktif pada Pembelajaran IPA Tematik Integratif Materi Peredaran Darah Manusia. *Jurnal Ilmiah Sekolah Dasar*, 2(4), 371–381. <https://doi.org/10.23887/jisd.v2i4.16154>.
- Widodo, H. (2019). Penguatan Pendidikan Karakter Di Sd Muhammadiyah Macanan Sleman Yogyakarta. *Lentera Pendidikan*, 22(1). <https://doi.org/10.24252/lp.2019v22n1i4>.
- Yunita, V. M., & Kristiyanto, A. (2021). Special Education Teachers' Perceptions Toward Online Learning During the Covid-19 Pandemic. 10(2), 202–211. <https://doi.org/10.23887/jpi-undiksha.v10i2.29773>.
- Yuzulia, I. (2021). The Challenges of Online Learning during Pandemic: Students' Voice. *Jurnal Pendidikan Dan Pengajaran*, 13(1), 08–12. <https://doi.org/10.31294/w.v13i1.9759>.

9. Development of Powerpoint-Based Interactive Media on Theme 8 Subtheme 1 in Elementary School

ORIGINALITY REPORT

14%	14%	6%	3%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	edu.pubmedia.id Internet Source	2%
2	journal.unilak.ac.id Internet Source	2%
3	ijstr.org Internet Source	1%
4	journal.unindra.ac.id Internet Source	1%
5	pdfs.semanticscholar.org Internet Source	1%
6	www.syncsci.com Internet Source	1%
7	jurnaltarbiyah.uinsu.ac.id Internet Source	1%
8	sasing.trunojoyo.ac.id Internet Source	1%
9	media.neliti.com Internet Source	1%
10	Wahyu Nuning Budiarti, Mawan Akhir Riwanto. "Development of Indonesian Language Learning Videos for Elementary Schools Storytelling Activities for Distance Learning", Proceedings of the 4th International Conference on Learning Innovation and Quality Education, 2020	1%

11	etd.uinsyahada.ac.id Internet Source	1 %
12	Submitted to Universitas Negeri Malang Student Paper	1 %
13	Yuli Rahmawati, Peter Charles Taylor. "Empowering Science and Mathematics for Global Competitiveness", CRC Press, 2019 Publication	1 %
14	jurnal.uin-antasari.ac.id Internet Source	1 %
15	www.jret.org Internet Source	1 %

Exclude quotes On

Exclude matches < 1 %

Exclude bibliography On