PRACTICALITY OF INTEGRATED THEMATIC TEACHING MATERIALS BASED ON PROJECT BASED LEARNING (PjBL) IN CLASS IV ELEMENTARY SCHOOL

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Abstract

Teaching Materials are one of the learning resources used to support educators and students in teaching and learning activities. The purpose of this study is to develop integrated thematic teaching materials based on project-based learning (PjBl) in 4th grade elementary school. The type of survey conducted is a development survey (R & D) using a 4D development model (definition, design, development, diffusion). The subjects of this study were 15 fourth graders of SDN015 Simangambat. Research results on the development of developed thematic teaching materials, the results of the field test of the teacher's answer questionnaire that achieved 91.66% of the results, and the result of the field test of the student's answer questionnaire, the result was 94.66%. *Thus, it can be said that the integrated thematic learning teaching materials in fourth grade elementary school have been used practically.*

Keywords: Teaching Materials, Project Based Learning (PjBL), 4D Model

Abstrak

Bahan Ajar merupakan salah satu sumber belajar yang digunakan untuk menunjang pendidik dan peserta didik dalam kegiatan belajar mengajar. Tujuan penelitian ini adalah mengembangkan bahan ajar tematik terpadu berbasis pembelajaran berbasis proyek (PjBl) di kelas IV SD. Jenis penelitian yang dilakukan adalah Penelitian Pengembangan (R&D) dengan model pengembangan 4D yaitu Define, Design, Develop, and Disseminate (pendefenisian, perancangan, pengembangan,dan penyebaran). Subjek uji coba dalam penelitian ini adalah 15 peserta didik kelas IV di SDN 015 Simangambat. Hasil dari penelitian Pengembangan bahan ajar tematik teryang dikembangkan memperoleh hasil tes praktikalitas angket respon

guru memperoleh hasil sebesar 91,66% dan hasil uji praktikalitas angket respon peserta didik memperoleh hasil sebesar 94,66%. Dengan demikian dapat disimpulkan bahwa bahan ajar pembelajaran tematik terpadu di SD kelas IV telah digunakan secara praktis.

Kata Kunci: Bahan Ajar, *Project Based Learning* (PjBL), Model 4D

INTRODUCTION

Teaching materials are one of the learning resources used to support educators and students in teaching and learning activities. This is because material is all forms of material (both information, tools and text) and is information and knowledge that students can learn to acquire the knowledge and skills needed for all the skills and materials they have acquired. Including learning materials.

In general, the implementation of integrated thematic learning in the 2013 curriculum did not go as expected. There are still some obstacles, such as the implementation of teacher-centered learning and inadequate learning resources.This condition indicates that the overall learning performed by the educator is not maximized and the learning process still uses the traditional learning approach dominated by lectures.

The teaching materials developed need to pay attention to appearance and aesthetics in order to encourage and motivate students to learn. The teaching materials developed must be attractive to motivate students to participate in learning. The teaching materials developed are designed to improve students' problem solving skills, solve complex problems more actively, strengthen cooperation, encourage the development and practice of communication skills, and improve students' overall abilities. Must be rational. Can you provide experience? to Participants Students Learn and practice in organizing a project, and teaching materials should be extensive.

Based on observations and interviews at SD Negeri 015 Simangambat from 10 to 12 September 2021, the researchers found several problems related to the teaching materials used: (1) In teaching and learning activities the teacher only uses printed teaching materials in the form of student books as learning resources.(2) There are no teaching materials developed by educators. Educators only use learning resources without developing them. This can be used as an opportunity for teachers to improve students' abilities and students' interests by making teaching

materials that are interesting, not boring, easy to understand and meaningful by students. (3) Educators still use conventional learning approaches which are dominated by lectures.

Things that help overcome the problems above meet the needs of students, encourage them to learn actively, give them hands-on experience, guide them to new discoveries, and learning activities. One of the ways teachers use learning models to develop teaching materials is to provide opportunities for students to be more active and develop themselves. This is a project-based learning model (PjBL). According to Ferawati (2015: 40), project-based learning has a significant effect on students' thinking skills. This helps students develop creative thinking skills because of the project-based learning syntax of the learning model.

As stated by Ngalimun (2016: 197), project-based learning is "project-based learning, focused on questions and problems, and students follow the core concepts and principles themselves in the field. Encourage hard work. In order for the developed material to be used with a purpose, the developed material must be considered critically in solving problems and actively working with groups You need to ask students to improve the skills of students organizing projects Each student is free to express ideas and share life experiences with friends, and students can use materials to solve problems Can be solved.

Consistent with previous opinion (Nasution & Harahap, 2019) Project-based learning is a systematic teaching method that draws students into knowledge and skills through a structured process, learning the real experience of making products. Kosasih (2014: 98) states, one of the learning models that aimed at helping students develop their skills and an ability is a project-based learning (PjBL) model. It can be used by educators as an opportunity to improve students' skills and interests by creating interesting, not boring, easy to understand and meaningful material for students to learn.

Based on this, researchers are interested in creating and developing teaching materials using a 4D development model with definition, design and development steps proposed by Thiagarajan (Sutarti, Tatik & Irawan, 2017: 12) with the steps of defining, designing, developing, and dissemination (disseminate). The learning media developed in this study used a 4-D development model with the title "Development of Integrated Thematic Teaching Materials Based on Project Based Learning (PjBl) in Grade IV Elementary School".

METODE RESEARCH

The type of research conducted by researchers is known as developmental research, or research and development (R & D). The development model used in this study is a 4D development model. According to the 4D model of Thiagarajan (Sutarti, Tatik & Irawan, 2017: 12), it consists of four phases: definition, design, development and dissemination. The research target is SDN 015 Simangambat.

Practicality instruments are used to collect data in the form of practicality of developed materials. The practical tools used are:

1) Teacher's answer questionnaire about the practicality of teaching materials. This questionnaire aims to get teachers' answers to the practicality of the developed material.
2) Questionnaire to students regarding the practical suitability of teaching materials. This questionnaire aims to collect student responses regarding the practicality of the thematic materials developed.

In measuring the level of practicality, it is carried out using the formula according to Rahmat and Irfan (2019:50) as follows:

$$\text{Pratically Value}(\%) = \frac{score\ obtained}{\max\ \ skor} + x100\%$$

Table 3 Practicality Value Scale

No	Score in percent (%)	Category
1.	0%-25%	Not Practical
2.	>25% - 50%	Less Practical
3.	> 50% - 75%	Practical
4.	>75% - 100%	Practical enough

RESULTS AND DISCUSSION

Analysis of Practical Test Results Teaching Materials Teacher Response

The teacher's response to the practicality of the learning media in the questionnaire was conducted by Mrs. Holidah S.Pd.SD as a Class IV SD class teacher at SDN 015 Simangambat. Based on the table in the appendix, as a result of the calculation of the utility worksheet, the percentage of utility of the teacher's answer is 91.66%, which is in the very practical category. Below, teachers present the results of practical suitability of project-based learning materials in Class IV of elementary school.

Table 15. The results of the analysis of the responses of SDN 015 Simangambat teachers to the practicality of teaching materials

No	Rated aspect	Score
1	Teaching materials make it easy for teachers to convey teaching materials to their students.	4
2	The language used in the teaching materials is in accordance with EYD.	4
3	Sentence expressions are easy for the teacher to understand.	4
4	Pictures in learning media make it easier for teachers to help students understand the material.	4
5	Correct layout placement of images or illustrations including material descriptions.	3
6	materials help teachers stimulate students' interest in learning.	3
Earned Score		**22**
Maximum Score		**24**
Practicality Percentage (%)		**91,6%**
Category		**Very Practical**

Analysis of Practical Test Results Teaching Materials Student Response

Data collection on the practicality of students was carried out by distributing a practicality questionnaire to grade students of SDN 015 Simangambat. Data collection was experimental. The response questionnaire was distributed to 15 fourth graders. The calculation results of the internship questionnaire are as follows.

Table 16. Results of the analysis of student responses at SDN 015 Simangambat on the practicality of teaching materials

No.	Respondent	Respondents to Questions				
		1	**2**	**3**	**4**	**5**
1	NS	4	3	4	4	4
2	AN	4	4	4	3	4
3	AH	4	4	4	4	4
4	RH	4	3	4	4	3
5	ZA	4	4	4	3	4
6	IH	3	4	4	4	3
7	M	4	4	4	4	4
8	HA	4	4	4	4	4
9	RM	4	3	4	4	3
10	NFC	4	3	4	4	4
11	SM	4	3	4	4	4
12	RPH	4	3	4	4	3
13	PH	4	3	4	4	4
14	ZH	4	3	4	4	4
15	A	4	3	4	4	4
Amount		**59**	**51**	**60**	**58**	**56**
Maximum Score		**60**	**60**	**60**	**60**	**60**
Percentage		**98,33 %**	**85 %**	**100 %**	**96,66 %**	**93,33 %**
Category		**SP**	**SP**	**SP**	**SP**	**SP**
Average Whole		**94,66%**				
Category		**Very Practical**				

CONCLUSION

Teaching materials were tested on practicality to teachers at SDN 015 Simangambat obtaining a score of 91.66% in the very practical category, while the analysis of the results of practical trials for teaching materials from student responses at SDN 015 Simangambat obtained a score of 94.66% in the very practical category. The advantage of this material is that it motivates and motivates students to become more active and solve complex problems well. Strengthen collaboration. Encourage students to develop and practice their skills ..

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