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CONTEXTUAL LEARNING IN ELEMENTARY SCHOOL: A META ANALYSIS

I Nyoman Indhi Wiradika¹, Heri Retnawati²

^{1,2}Postgraduate Program, Yogyakarta State University, Indonesia

Article Info	ABSTRACT	
Article history:	The practice of contextual learning in Indonesia is a method that is often used. This	
Received: 21-07-2021 Revised: 31-08-2021 Published: 30-09-2021	study aims to determine the average value of elementary school students with contex- tual learning. Meta-analysis is used to calculate the average score of elementary school students with contextual learning. The scope of the article is a contextual learning re- search conducted on elementary school students in Indonesia. The publication year is	
Keywords:	— Imited to 2016 to 2021. This study uses 44 data sources for articles and theses with the result that the aggregate proportion of students who complete their studies with	
CTL Primary school	contextual learning is around 79.25. These results prove that contextual learning can obtain learning outcomes above the national minimum completeness criteria.	
Meta Analysis	This is an open access article under the <u>CC BY-SA</u> license.	

Corresponding Author:

I Nyoman Indhi Wiradika, Postgraduate Program, Yogyakarta State University, Jl. Colombo No.1 Yogyakarta, Indonesia Email: inyoman2020@student.uny.ac.id

1. INTRODUCTION

Learning is an activity carried out with the aim of gaining knowledge, mastering certain competencies and shaping student attitudes. Learning success can be seen from changes in student behavior and learning outcomes (Puspitarini & Hanif, 2019). Carrying out the learning process requires certain strategies and methods so that the objectives of learning can be achieved. Primary school students have different characteristics and learning processes from adults (García, Rodríguez, González-Castro, González-Pienda, & Torrance, 2016). Learning in elementary schools requires certain efforts that are in accordance with the characteristics of the child. Usually, learning in elementary schools includes activities that actively involve students.

The process of choosing to use certain methods and approaches is not an easy decision for teachers. The use of a learning approach needs to be adapted to the characteristics of students, materials, learning environment and the availability of learning support tools. Using learner-centred learning approaches such as active learning, experiential learning, online learning, and the like in transformative learning can lead to deeper and meaningful learning. Fernando & Marikar (2017), argues that the traditional lecture teaching method should be combined with participatory teaching methods such as question and answer and group discussions to produce an active learning experience.

Contextual learning is the most effective way for students to see the relationship between what students learn in the classroom and the real world (Scans, 2000). As stated by Kalchik and Oertle (2010), the Contextualized Teaching and Learning (CTL) approach is based on constructivist educational theory because it involves students and teachers in active classroom activities, ensuring that learning is student-centered and engaging. It is based on the idea that students create the meaning of their own concepts when learning through experiences that promote innate motivation and desire to learn.

The use of contextual learning in learning can facilitate students to learn according to their needs and culture. Contextual learning is in accordance with the Indonesian context which has a variety of cultures and habits that lead to ways of producing knowledge. Bumgarner (2017) explained that the Contextualized Teaching and Learning (CTL) Approach is rooted in a constructivist approach to teaching and learning. The constructivist theory that students learn concepts and construct meaning through the interaction and interpretation of events in their environment. Contextualized Teaching and Learning (CTL) approach as mentioned by Satriani et al. (2012) is a learning philosophy that emphasizes the interests and experiences of students. It provides a means to achieve learning goals and objectives that require higher order thinking skills.

Contextual Teaching and Learning (CTL) is a learning approach that utilizes problems or problems of everyday life that exist around students as learning objects (Khotimah & Masduki, 2016). The contextual teaching and learning approach is a promising set of strategies and practices that actively engage learners to promote and enhance learning and skills development. Learning can improve student learning outcomes and achievement (Qudsyi, 2017). The results of the research by Seifert and Sutton (2009) show that Motivation Theory also focuses on the students' perceived value of the instructional mode and the development of self-efficacy which is a key component of the Contextualized Teaching and Learning (CTL) Approach. Pupils are encouraged to reflect on their own ideas and experiences in which instruction and materials are embedded. Thinking about content in real-world experiences is important in the CTL Approach because students see the real-world relevance of what they are learning. So, they become interested and motivated.

There are seven principles contained in contextual learning; constructivism, inquiry, questioning, community learning, modeling, reflection, and authentic assessment (Nursanti, Putra, & Manuaba, 2020). Meanwhile, according to Johnson (2008), there are seven learning components that form the basis of application, namely: 1) constructivism; 2) ask; 3) find; 4) learning community; 5) modeling; 6) reflection; and 7) actual assessment. The use of CTL in learning is ideally based on the stages that characterize contextual learning. The problem with contextual learning is the teacher's ability to reflect on learning and relate it to the environment. In addition, teachers do not yet have confidence in the importance of contextual learning in learning. This article tries to dig up information about contextual learning practices in elementary schools. A meta-analysis study was conducted to obtain a portrait of contextual learning practices and their implications for student learning outcomes.

2. RESEARCH METHOD

This research is a meta-analysis research that focuses on contextual learning in elementary schools. The sample in this study was obtained using the Publish or Perish 7 software. Some of the keywords used to obtain the data are summarized in Table 1.

Table 1. Keywords to obtain data		
Key Word		
CTL Elementary School		
Elementary School Contextual		

The database search was focused on Google Scholar, the UNNES Repository, and the Undiksha Repository. The criteria for the year of publication of the data sources are from 2016 to 2021. The types of data sources come from research publications in the form of scientific articles published in journals, and final assignments for elementary school teacher education students. The number of samples in this study were 44 data sources consisting of 31 journal articles and 13 theses.

The data used in this study were generated from quasi-experimental research and the data source was focused on the post-test experimental class. The results of the analysis used are the average score, standard deviation, number of samples and maximum and minimum scores. The data were analyzed using JASP 0.14.1.0 software with the Restricted ML method. In the description of the concentration measure, there is only one variable that is the keyword. The analytical technique used in this study uses a meta-analysis of the concentration measure. The use of convergence measures needs to pay attention that the analyzed studies measure the same thing, or measure the same variables (Retnawati, Apino, Kartianom, Djidu, & Anazifa, 2018).

3. RESULT AND DISCUSSION

The results of descriptive analysis show information about data sources. The data source contains information from the research sample which is categorized based on the period of publication, the respondent's class level, and learning outcomes from contextual learning. The following consists of the category of year of publication, class level of research participants, and learning outcomes from the use of contextual learning.

Table 2. Number of descriptive data source categories			
Category		Number	Percentage
Publish Year	2016	2	5%
	2017	9	20%
	2018	5	11%
	2019	10	23%
	2020	17	39%
	2021	1	2%
Class	1	1	2%
	3	5	14%
	4	17	40%
	5	20	47%
Learning Outcomes	Bahasa Indonesia	2	5%
	PKn	5	11%
	Matematika	12	27%
	IPA	15	34%
	IPS	3	7%
	Tematik	6	14%
	Kebudayaan	1	2%

Based on Table 2, 39% of data sources were published in 2020. The class that was the subject of the study was 47% of 5th grade elementary school students. Learning outcomes that become the output of the use of contextual learning approaches 34% in science subjects.

The results of the calculation of Effect Size and Standard Error are obtained from identifying the number of samples, the average and standard deviation of the research results. The range of scores for each research result is equalized to a score of 0 to 100. Proportion and mean are measures or parameters that express the expectations of a sample or population. This parameter describes the position or location of a data in a range, between the minimum and maximum of a measured variable (Retnawati et al., 2018).

Table 3. Effect Size and Standard Error			
Research	ES	SE	
Nuryanto, et al. (2018)	66.33	1.71	
Wulandari, et al. (2019)	68.55	2.26	
Santoso (2017)	70.00	2.67	
Mawardi, et al. (2019)	69.44	2.39	
Mawardi, et al. (2019)	70.43	1.36	
Wahidah, et al. (2019)	71.50	2.17	
Astuti, et al. (2018)	70.67	2.50	
Astutik (2021)	74.54	1.52	
Herfiani & Syarifuddin (2018)	75.16	1.79	
Natalia, et al. (2017)	75.26	2.15	
Asniah, et al. (2020)	76.40	1.15	
Hasnidar & Elihami (2020)	75.81	0.57	
Anggreni, et al. (2017)	76.22	1.72	
Adviani, et al. (2017)	77.87	1.13	
Kartika & Wulandari (2019)	78.08	1.21	
Latifah & Sa'odah (2019)	78.20	1.79	
Sari, et al. (2019)	78.41	2.28	

Table 3. Effect Size and Standard Error			
Research	ES	SE	
Saifuddin & Nugraheni (2020)	78.41	0.66	
Anjani, et al. (2020)	78.50	1.71	
Setiawan (2020)	79.00	1.00	
Mandasari, et al. (2019)	79.31	0.51	
Yesya, et al. (2018)	79.36	1.85	
Framita, et al. (2018)	79.81	1.71	
Farida, et al. (2017)	79.83	1.63	
Purwanti, et al. (2017)	80.07	1.61	
Antari, et al. (2020)	80.79	1.19	
Tinja, et al. (2017)	81.00	1.36	
Ihsani, et al. (2018)	81.00	1.23	
Nilasari, et al. (2016)	82.27	2.38	
Harsanti (2017)	82.37	1.02	
Safitri & Trimurtini (2020)	82.40	1.59	
Nursanti, et al. (2020)	82.78	1.22	
Somayana (2020)	83.50	1.32	
Sudira, et al. (2020)	83.85	1.95	
Zahrah & Suryana (2019)	84.95	0.93	
Ilham, et al. (2016)	83.89	1.16	

83.97

84.27

86.00

84.95

85.16

86.60

86.94

87.20

1.42

0.82

1.78

0.93

2.33

0.90

1.71

1.47

Table

Dewi, et al. (2020)

Triani (2019)

Winarni (2017)

Nurhaliza (2019)

Saifuddin & Nugraheni (2020)

Zahrah & Febriani (2020)

Hilman & Astimar (2020)

Rahmawati & Trimurtini (2020)

Based on Table 3, the highest effect size is 87.2 with a standard error of 1.47. The lowest standard error is 0.51, the lower the standard error, the lower the measurement error in research.

Table 4. Heterogenety Test			
Q	df	р	
10095.643	1	< 0.001	
552.412	43	< 0.001	
	Q 10095.643 552.412	Q df 10095.643 1 552.412 43	

The heterogeneity test was conducted to prove that the data used had different effect sizes. The results of the heterogeneity test were carried out to determine the model to be used in calculating the summary effect (Karbono & Retnawati, 2021). The results of the heterogeneity test are presented in Table 4.

The heterogeneity test used in this study was carried out with the parameter Q with degrees of freedom (df): 44-1 = 43. The results of the heterogeneity test in Table 4. indicate that the p value < 0.05, because the p value < 0.05 then H₀ rejected, which means that the effect size of each study is heterogeneous. The results of the study are heterogeneous in determining the summary effect calculation using the random effects model.

Table 5. Coefficients of Wald Test				
	Estimate	Standard Error	Z	р
intercept	79.252	0.789	100.477	< 0.001

The analysis used in this study is the Random Effect model. This Effect Summary will provide an idea of the size of the observed effect. The results of the summary effect calculation using the random effects model are presented in Table 5. Table 5 shows that the effect size in this study was 79.25. This illustrates



that learning with CTL can give good learning outcomes. Information about the effect size in each study is presented in Figure 1.

Figure 1 provides information on the summary effect distribution of each study. The distribution in each study varied from 66.33 to 87.20. Then the effect summary with the random effects model shows that the magnitude of the effect size is 79.25 with a limit of 77.71 and discussed above 89.80. Therefore, it can be concluded that contextual learning can provide learning outcomes with a value of more than 75. Analysis of publication bias in this study used a funnel plot. Publication analysis can be used to prove that the meta-analysis carried out is objective and in accordance with empirical data. The publication results can be shown in Figure 2.

Based on the funnel plot image above, there is no visible circle in the funnel plot image of the fixedeffect model, so there is no missing research (Candra & Retnawati, 2020), meaning that CTL has a relationship or influence on learning outcomes for elementary students. The results in Figure 2 prove that of the 44 studies that became subjects the distribution was symmetrically, so there was no potential for publication bias.

The results of the study prove that the proportion of students' scores by using the CTL is around 79.25, and this result is sufficient as a student's mastery. The results of each study showed that 20 studies were below the aggregate average while the other 24 studies had an average above the aggregate. Conditions that support the use of CTL strategies are connections to real-world contexts (Glynn. & Winter., 2004). The use of CTL in learning in elementary schools is a common practice applied by teachers. The application of CTL in elementary schools is unique because not many teachers apply CTL in thematic learning. Generally, teachers apply CTL based on subject areas in elementary school, so the characteristics of thematic learning in elementary school are not very visible. CTL practice conducted by Anggreni, et al. (2017) showed that learning using a



simple media-assisted contextual learning approach had an effect on students' mastery of science knowledge competencies compared to using conventional learning. The use of learning media in CTL is quite commonly done by teachers to become a tool to link learning with the environment around students.

The use of CTL needs to pay attention to the learning components and student learning environment. The development of media or CTL learning resources demands teacher creativity. Teachers need to be active in utilizing the school environment as a learning resource to be able to create innovative media and teaching aids so that students can use them to discover the concepts of the material that has been studied (Somayana, 2020). In addition, CTL needs to involve students actively during the learning process. Students need to experience themselves being actively involved by using as many elements of their senses as possible about what is being studied or their social environment both individually and in groups (Winarni et al., 2017).

The use of contextual learning in thematic learning can actually be an opportunity for teachers to design learning that is closer to the student's environment. Thematic learning with a contextual approach in the classroom can help students relate learning materials to real-world situations experienced in everyday life so that the material learned is more easily embedded in students' memories (Astuti et al., 2018). In addition, CTL makes students not awkward to ask questions so that students are easy to complete the material and students are happy when discussing groups because they can solve problems together (Sari et al., 2019).

4. CONCLUSION

The results of a meta-analysis study with a random effect model showed that the CTL had an effect size of 79.25. This value shows that the use of CTL in learning in elementary schools can produce scores above the national minimum completeness criteria. The use of CTL in elementary schools needs to pay attention to thematic learning and strive to be close to the child's environment. The implementation of CTL in SD can be used with various variations and media. The uniqueness of teaching in elementary schools with a variety of subjects taught by classroom teachers can provide more experience for teachers to identify what types of CTL can be used in classroom practice. In addition, CTL needs to actively involve students so that learning can be more constructive.

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