



EFFECTIVENESS OF USING THE WORDWALL APPLICATION ON STUDENT LEARNING OUTCOMES

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Abstract: Effectiveness Of Using The Wordwall Application On Student Learning Outcomes

This study aims to describe the effectiveness of using the wordwall application on student learning outcomes of Madrasah Ibtidaiyah Teacher Education Study Program for Mathematics MI. This research method is descriptive quantitative experiment. The design to be used is Design One Pretest-Posttest Group. The subjects of this study were 31 students of the Al-Azhaar Lubuklinggau Islamic Elementary School Teacher Education Study Program. The instrument used is 25 multiple choice questions, the instrument has been tested for validity and reliability. The analysis technique used is the normality test and hypothesis testing. The results of the study by testing the paired sample test showed that the asym sig. (2-tailed) of $0.00 < 0.05$ so that H_0 is rejected and H_a is accepted, which means that there is an effectiveness of the application of the wordwall application on student learning outcomes of Madrasah Ibtidaiyah Teacher Education Study Program for Mathematics MI. It can be concluded that wordwall learning media (X) has a significant effect on student learning outcomes of the Al-Azhaar Lubuklinggau Islamic Institute of Islamic Religion (IAI) Teacher Education Study Program.

Keyword: Learning Outcomes, Madrasah Ibtidaiyah, Wordwall

Abstract: Efektivitas Menggunakan Aplikasi Wordwall Tentang Hasil Belajar Siswa.

Penelitian ini bertujuan untuk mendeskripsikan efektivitas penggunaan aplikasi wordwall terhadap hasil belajar mahasiswa Prodi Pendidikan Guru Madrasah Ibtidaiyah Mata kuliah Matematika MI. Metode penelitian ini adalah deskriptif kuantitatif eksperimen. Desain yang akan digunakan adalah Design One Grup Pretest-Posttest. Subjek penelitian ini adalah 31 mahasiswa Prodi Pendidikan Guru Madrasah Ibtidaiyah Institut Agama Islam (IAI) Al-Azhaar Lubuklinggau. Instrumen yang digunakan yaitu 25 butir soal pilihan ganda, instrumen tersebut telah dilakukan uji validitas dan uji reliabilitas. Teknik analisis yang digunakan adalah uji normalitas, dan uji hipotesis. Hasil penelitian dengan pengujian paired sampel test menunjukkan bahwa nilai asym sig. (2-tailed) sebesar $0,00 < 0,05$ sehingga H_0 ditolak dan H_a diterima yang artinya adanya efektivitas penerapan aplikasi wordwall terhadap hasil belajar mahasiswa Prodi Pendidikan Guru Madrasah Ibtidaiyah Mata kuliah Matematika MI. Dapat disimpulkan bahwa media pembelajaran wordwall (X) berpengaruh signifikan terhadap hasil belajar mahasiswa Prodi Pendidikan Guru Madrasah Ibtidaiyah Institut Agama Islam (IAI) Al-Azhaar Lubuklinggau.

Kata kunci : Hasil Belajar, Madrasah Ibtidaiyah, Wordwall

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A. INTRODUCTION

The importance of learning mathematics in elementary schools requires teachers to be able to prepare lessons so that the goals of learning mathematics can be achieved properly (Anggraini, 2021). Mathematics has an important role in one's life (Anitra, 2021), the importance of understanding the right mathematical concepts for elementary school students (Radiusman, 2020). In order to be able to teach well, of course, prospective elementary school teachers must first understand the concept of mathematics so that the goals of learning mathematics can be achieved properly.

Elementary school teachers will later also have subjects related to mathematics that are thematic or made separately (Fauzi et al., 2020), based on this, as a prospective elementary school teacher it means that a prospective elementary school teacher must master mathematics learning in elementary school (Anggraeni et al., 2020), means that as a prospective teacher of mathematics apart from preparing skills in mathematics, they also understand several strategies in learning mathematics that will be taught to elementary school students later (Rahman, 2018).

In order to achieve national education goals, important components are needed, for example, effective learning is needed (Hasiru et al., 2021). In order to achieve the national education goals for effective mathematics learning, media is needed to achieve this effective learning. Learning outcomes can be used as a measuring tool to determine whether students succeed or fail (Matondang et al., 2019). In order to produce student success, learning media are needed that support the learning process both visual media (Batubara, 2020), interactive media (Siamy et al., 2018), video media (Wulandari & Rahma, 2021), can also use wordwall media (Woei et al., 2021) as a support for the learning process so that it can achieve educational goals.

One of the media that can be used for learning to improve student learning outcomes so that students focus on learning is by using e-learning based teaching materials. One type of e-learning is wordwall (Sinaga & Soesanto, 2022). The word wall is an excellent medium for creating an atmosphere for learning (Maghfiroh, 2018). *Wordwall is an application that can be used to create interactive learning media* (Miftah & Lamasitudju, 2022). This website-based application can be used to create learning media such as quizzes (Amany, 2020), matchmaking (Supriadi, 2022), pairing pairs (Khoriyah & Muhid, 2022), anagrams (Oktaviani & Yanti, 2022), random words (Tanjung & Toyyib, 2021), word search (Wanitri & Hardianto, 2020), grouping (Saida, 2021), and so on.

The use of word walls is very interesting, besides that users can provide access to the media they have made online (Sinaga & Soesanto, 2022), they can also be downloaded and printed on paper (Mujahidin et al., 2021). This application includes an online learning evaluation application (Nadia et al., 2022), with this application it is hoped that it can help students understand the subject matter provided by the teacher (Maghfiroh, 2018), and to motivate learning (Arimbawa, 2021).

The level of student understanding of subjects in learning can be determined by evaluating (Matondang et al., 2019). To measure student success in mastering the material taught by lecturers using an assessment tool in the form of an evaluation in the form of an assessment instrument in the form of a test (Setiawan, 2021) or non-test (Shobariyah, 2018) is the goal of evaluating learning outcomes.

Based on the results of observations from March 1 to March 5 2023, it was found that several students had difficulty understanding the material provided by the lecturers, especially in the Madrasah Ibtidaiyah Mathematics course. Seeing this, a different learning strategy is needed than before, one of which is by using word wall learning media as a learning tool. So it is hoped that by using word wall learning students can understand the mathematics subject of Islamic elementary schools.

Based on the observation results, it was also found that most of the students were not from the Science major but from the Social Sciences major, where if they majored in science, they would get a deeper understanding of mathematics when they attended high school. IPS 21 people and 10 students from vocational high schools.

Based on the results of the questionnaire which was distributed via Google form, it was found that 15 people liked mathematics and 16 people did not like mathematics. Based on interviews, it was found that during the learning process it was less interesting and the interaction between lecturers and students. This is what causes one of them to dislike mathematics, so learning is needed that can make students like learning mathematics.

Previous research has increased Arabic vocabulary through word walls (Azizah, 2020), the use of wordwalls for mastering English the effect of wordwall applications (Gandasari & Pramudiani, 2021); (Matt et al., 2022); (Permana & Kasriman, 2022), the use of word wall learning media for science learning (Pradani, 2022). Because the importance of this is seen, it is necessary to carry out further research with the title "Effectiveness of using wordwall applications on student learning outcomes". The results of the research are expected to contribute to Al-Azhaar Lubuklinggau Islamic Institute of Religion (IAI) lecturers, especially those who teach courses related to mathematics.

B. METHOD

The research method used is quantitative with the one group Pretest-posttest design method (Kusumastuti et al., 2020). Place of research at the Al-Azhaar Lubuklinggau Islamic Institute of Religion (IAI). This research was conducted for three months, from March to the end of May 2023. The population in this study were all students of the Madrasah Ibtidaiyah Teacher Education Study Program for the 4th semester Madrasah Ibtidaiyah Mathematics course, totaling 31 students. The sampling technique carried out by researchers in this study was to use saturated sampling namely making all members of the population as samples. So, the sample used in this study were 31 students of the Madrasah Ibtidaiyah Teacher Education Study Program in the 4th semester of the Madrasah Ibtidaiyah Mathematics course.

The data collection method uses a test (Priadana & Sunarsi, 2021). The tests used are in the form of pre-tests and post-tests to measure the level of student learning outcomes in the cognitive domain (Agustianti et al., 2022). The following are the steps in data collection: 1) Giving the initial test, the initial test is carried out before giving the treatment, 2) Giving the final test, to find out student learning outcomes after being treated with the use of a word wall.

C. RESULTS AND DISCUSSION

Results

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Residual for Y	.111	31	.200*	.951	31	.162

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Based on the Residual for Post $0.162 > 0.05$, it is concluded that the data is normally distributed

Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	Pre_Test - Post_Test	-9.83871	12.54883	2.25384	-14.44166	-5.23576	-4.365	30	.000

It is known that the sig (2-tailed) value is $0.000 < 0.05$, so it can be interpreted that H_a is accepted, which means that there is an effectiveness of using Word wall on student learning outcomes of Madrasah Ibtidaiyah Teacher Education Study Program for Madrasah Ibtidaiyah Mathematics Course.

Discussion

The results of this study are in line with research (Maghfiroh, 2018) the use of Wordwall media can improve student learning outcomes, the use of word wall learning media can also increase student interest and motivation (Nissa & Renoningtyas, 2021), the use of word wall applications can also be used in online learning (Wafiqni & Putri, 2021). The use of word walls also increases student interest in learning (Woei et al., 2021).

D. CONCLUSION

Based on the sig (2-tailed) value of $0.000 < 0.05$, it can be interpreted that H_a is accepted, which means that there is an effectiveness of using Wordwall on student learning outcomes of Madrasah Ibtidaiyah Teacher Education Study Program for Mathematics in Madrasah Ibtidaiyah.

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