

THE EFFECTIVENESS OF USING TIKTOK VIDEOS TO INCREASE STUDENTS' ENGLISH VOCABULARY AT THE EIGHTH GRADE OF SMPN 36 PURWOREJO IN THE ACADEMIC YEAR OF 2022/2023

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Abstract

This study aims to describe students' English vocabulary and determine whether or not TikTok videos are useful for developing vocabulary. A quasi-experimental design was used in this study's quantitative investigation. This study's population consists of 192 eighth-grade students from SMPN 36 Purworejo during the school year 2022/2023. This study's sample consists of 64 students from VIII A and VIII E. Purposive sampling was used to select 32 students for each class. The information was gathered through the use of exams and closed-ended questionnaires. The findings of this study, there is a difference in the outcomes of students taught using TikTok videos and those who were not. This research shows that after the treatment, there is a difference in the results between students taught using TikTok videos and those without TikTok videos. The research finding shows that the mean of the experimental class post-test is 70.50. Meanwhile, the mean of the control class post-test is 62.28. The final result of the t-test analysis shows that the Sig. (2 - tailed) value is lower than 0.05 ($0.000 < 0.05$) and the Tvalue is higher than the Ttable ($4.656 > 2.000$). As a result, the alternative hypothesis (H_a) is accepted. Additionally, the questionnaire revealed that students of the experimental class have good perceptions. The results show that TikTok videos considerably influenced the vocabulary of students in the eighth grade at SMPN 36 Purworejo during the academic year 2022/2023. As a result, English teachers should be: (1) innovative and creative in guiding the students in exploring TikTok videos as learning materials so that they can absorb them, and (2) creative and innovative in selecting and presenting information depending on their needs.

Keywords: *Effectiveness, TikTok, Vocabulary*

1 INTRODUCTION

The most powerful communication tool in the world is language. A social community uses language as a set of flexible sound representations to communicate [1]. Language includes a tool for human interaction. Language is necessary for people to find and produce relevant information for the community as well as to convey their thoughts, ideas, and abilities [2]. Humans utilize language as a structured form of communication that is based on spoken phrases and motions, symbols, or writing. Language can be understood according to the intent and purpose of the speaker. Internationally, there are various languages used by each country around the universe. Then, English is selected as a second language because it is used to converse with people all throughout the world.

English language communication is among the things that many people are interested. In this global era, English usage is becoming more prevalent. English has effectively established itself as a tool for intercultural communication, a second language in communication, and a language in the global research language [3]. The ability to communicate with others and succeed academically depends heavily on a command of the English language. Therefore, everyone must learn English, especially in this increasingly advanced era. Consequently, learning English is essential for everyone, especially in today's technologically evolved age. In this sense, Indonesia uses English as one of its foreign language courses [4]. With the English subject at school, it is hoped that students will get used to speaking and writing in that language.

Learning the English language is basically about that vocabulary language. Learning English is important for students in the era of globalization. Thus, people must improve their English proficiency

around the world. Students should start learning English with vocabulary in order to master the language. Vocabulary is a collection of words known by a person that imparts meaning to the language, since it enables one to express in all linguistic abilities, conversing, thinking, and writing [5]. Vocabulary represents one among the most essential abilities for learning and studying a new language. It acts as the basis for the establishment of all other abilities, including reading skills, listening ability, communication, and grammar [6]. Without sufficient vocabulary, students cannot express their thoughts clearly in both written and oral communication. Further mastering vocabulary would be helpful for the students, English proficiency greatly relies on the effectiveness and amount of vocabulary students have perfected. The greater the students' vocabulary has mastered, The more advanced their language abilities in discussing, understanding, thinking, and producing, the quicker it will be to improve.

Learning Vocabulary for students' proficiency in the English language is also measured by how many words they have memorized and the lot of words have to remember the words. Students tend to feel bored and confused to memorize English vocabulary. Poor vocabulary knowledge poses major problems for its learners, preventing them from acquiring the English language. During researching or writing, when speaking with an English native, or viewing a cinema without subtitles. States by having much vocabulary, students will find it easier to show their ideas, and many activities deal with language [7]. Vocabulary is among the factors in mastering English as a second language [8]. It indicates that students' linguistic skills improve as their vocabulary grows. Students will have difficulty understanding English skills with a limited vocabulary.

Based on research data, the researcher discovered that the issues to build vocabulary students have to master English vocabulary first before they produce it through speaking or writing. The Problems faced by students were low vocabulary caused by the ability to remember very weak, inability to write properly, and lack of student motivation caused by learning that was taught [9]. Communication and understanding issues in a foreign language might result from low vocabulary learning [10]. The fact that students' poor knowledge of the English language can also be determined from the low exam results they have maintained during their academic, with no evidence of change. The challenges that students' English learning aims for are problems that should be researched to find solutions. Therefore, in this study, the researcher wanted to increase students' vocabulary skills, such as using platform social media and attracting students' attention to learning.

Technological advancements have altered every other. After the Covid-19 pandemic, social media systems are increasingly and significantly contributing to younger people's education in English communication ability [11]. Almost all teenagers prefer going along with the smartphone to spend time as well as learning English vocabulary. Students have more time for self-directed study now that social media is widespread. Due to the majority of social media information being in English, using it can aid in improving learners' English ability, and foreign-language learners are enthusiastic about utilizing social media to study English [12]. This increases their drive to study and master English. Thus, information technology has a significant influence on learners' learning methods and English training.

Utilizing apps can boost learners' impulses, personality behaviors, and enthusiasm for innovative language learning; apps can also help learners with increased vocabulary acquisition [13]. Social networking has 4 main functions: pleasure, sociability, information, and education [14]. Social media is among the biggest widely used tools by individuals all over the world, from younger students to the elderly. A teacher must use digital platforms as efficiently as possible to help the educational process. Because the majority of social media information is in English, using it can aid in improving learners' English ability [15]. To overcome this problem, assistance is needed in the form of learning media such as platforms are YouTube, Instagram, and Twitter that can help clarify the material so that it is better understood. However, beginning in 2019, particularly with the onset of the Covid-19 epidemic, there is a fresh rising social media platform among teenagers known as TikTok [16]. The utilization of social media sites can help students improve their vocabulary.

Besides studies about diverse strategies used by learners in acquiring the English language, as a medium for enhancing vocabulary learning in the emerging era of technology. TikTok has recently been trendy among students studying the language [17]. TikTok is available for download through the Google Play Store and the Apple App Store. Platform It is beneficial for students to gain access to information and insight. Since the pandemic's wide impact, this app's numerous content creators have

shared instructional, medical, as well as other educational. TikTok is an effective tool for improving vocabulary as it offers a visual and auditory learning experience [18]. Students can watch and listen to videos that demonstrate the meaning and usage of new words in context. This can make the learning process more engaging and memorable compared to traditional methods of learning vocabulary through reading and memorization. Students were unable to grasp the English language due to a lack of vocabulary and practice. TikTok made media the learning process more entertaining with its characteristics, such as videos, writing, themes, and music [19]. This step would help students learn to comprehend the vocabulary material from videos. The learning goal for each meeting cannot be met to the fullest extent possible. Learning vocabulary from videos on TikTok can be an efficient solution since students would have more time to study in class and at home. Therefore, this research will be carried out to look into the effectiveness of using TikTok videos with various speeds to increase vocabulary depending on the level of complexity of the questions on students' vocabulary development and the students' reactions towards using this application as an alternative for classroom activities. As a result, the thesis aims to achieve the above goals, and the topics covered in this report will be outlined in the following research questions:

1. How is the students' English vocabulary at the eighth grade of SMPN 36 Purworejo in the academic year of 2022/2023?
2. Is using TikTok videos effective to increase students' English vocabulary at the eighth grade of SMPN 36 Purworejo in the academic year of 2022/2023?

2 METHODOLOGY

The research data has been gathered using a quantitative method and a quasi-experimental research design. The researcher needs to determine reasonable causation and effect relationships between dependent and independent variables. The subjects of this research are the principal of SMPN 36 Purworejo. This study's population consists of eighth-grade students of SMPN 36 Purworejo in the academic year of 2022/2023. The class consisted of females and males a total population is 192 students. The sample is the experimental class and the control class; the sample consists of 64 students. The samples were collected from two classrooms, those are VIII E as the experimental class and VIII A as the control class. The researcher uses purposive sampling when collecting the sample.

To collect data, the researcher employed test and questionnaire that has been validated by experts' judgment. Instruments for data collection comprise tests, questionnaires, interviews, observation, rating scales, and documents [20]. In this research, the type of test because the researcher wanted to know the student's English vocabulary. The same set of participants is examined twice in this design: once before the treatment began (pre-test) and once after the treatment (post-test). The researcher gives two tests are pre-test and a post-test in the form of multiple choices, fill the blank, and true or blank which consists of 30 questions. The treatment itself used TikTok videos that have been adjusted with the level of the student's English vocabulary. Further information the close-ended questionnaire is used to collect survey responses from people who had a limited range of options [21]. Furthermore, the researcher collects data using the Likert scale to measure a limited range of options. A few students were questioned to gather data about the attitude and benefits of online EFL practices.

The level of mastery of English writing skills was also calculated by the researcher using a criterion scale. According to [20], the table below shows students' achievement in vocabulary:

Table 1. Classification of the students' achievement

Value	Grade	Level of achievement
80-100	A	Excellent
66-79	B	Good
56-65	C	Sufficient
40-55	D	Fairly sufficient
<39	E	Poor

The researcher used descriptive and inferential statistics to examine the data. The researcher used descriptive analysis and inferential analysis. The descriptive statistics include measurement of central symptoms tendency (mean, median, mode) and measurement of variation group (range, variance, and standard deviation). In measuring descriptive statistics, the researcher used SPSS version 25. SPSS

is a data processing tool that can handle data rapidly and accurately [22]. Furthermore, inferential analysis includes techniques for testing hypotheses through a discussion of homogeneity, normality, and the t-test. The assumptions of the students' questionnaires were indicators in the statements. All of the questionnaires were analyzed and interpreted for common themes relevant to the use of TikTok videos to increase English vocabulary.

3 FINDING AND DISCUSSION

The goal of this study is to find out the effectiveness of using TikTok videos to increase students' English vocabulary. TikTok is considered a platform that can attract students' interest in learning vocabulary. The findings of the vocabulary tests were used for analyzing the data. After conducting a number of treatments and analyzing the data, the researcher is able to draw a certain conclusion.

3.1 Descriptive Analysis

The descriptive analysis is summarized below by comparing the findings groups (experimental and control). This table illustrates the highest and lowest scores, as well as the range, median, mode, mean, and standard deviation both of the classes.

Table 2. *The Descriptive Analysis of SPSS Computation.*

Descriptive Statistics											
	N	Range	Minimum	Maximum	Sum	Mean	Std. Deviation	Variance	Median	Mode	
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Statistic	Statistic	Statistic
Pre-Test Experiment	32	30	37	67	1672	52.25	1.580	8.94	79.87	53.00	57.00
Post-Test Experiment	32	30	53	83	2256	70.50	1.250	7.07	50.00	70.00	67 ^a
Pre-Test Control	32	30	37	67	1667	52.09	1.520	8.60	73.89	50.00	50.00
Post-Test Control	32	30	47	77	1993	62.28	1.246	7.05	49.69	61.50	57.00
Valid N (listwise)	32										

Based on data in Table 2, it can be observed that the average score increased from 37 to 83 after the test. The median score also showed improvement, increasing from 53.00 to 70.00. Similarly, the mode shifted from 57.00 to 67.00 after the test. The standard deviation increased from 7.07 to 8.94, and the variance also showed an increased value from 79.87 to 50.00. In terms of range 30 before the test to 30 after the test.

3.2 Inferential Analysis

The Normality Test is utilized to find out whether or not the data were distributed normally. The normality testing in this research was conducted using IBM SPSS 25 can be seen in the table 3:

Table 3. *The result of Normality Kolmogorov-Smirnov*

Kelas	Kolmogorov-Smirnov [®]			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
Score Pre-Test Experiment	.140	32	.113	.955	32	193
Post-Test Experiment	.107	32	.200	.966	32	397
Pre-Test Control	.134	32	.156	.957	32	225
Post-Test Control	.133	32	.160	.962	32	304

The data can be stated normally if the level of significance is greater than the significant level (>0.05). Whereas, the data can be said abnormal if the significance value is lower than the significance level (<0.05) [23]. The computation above shows in the Kolmogorov-Smirnov column that the significance

value of the pre-test and post-test of the experimental group, pre-test is 0.113, post-test 0.200. The significance value of the experimental group's pre-test and post-test, pre-test is 0.156, post-test is 0.160. The significance values of the experimental group is higher than 0.05 and the control group is higher than 0.05. It can be concluded that the data distribution of the pre-test and post-test experimental and control group is normal.

After determining the collected data, the researcher used IBM SPSS 25 to compute the test of homogeneity using the T-test. The result of the T-test was in Table 4:

Table 4. The Calculation result of Homogeneity

Score	Levene Statistic	df1	df2	Sig.
Based on Mean	1,534	3	124	.209
Based on Median	1,269	3	124	.288
Based on Median and with adjusted df	1,269	3	118.925	.288
Based on trimmed mean	1,524	3	124	.212

From the table 4, the researcher found that the test of homogeneity based on mean is 0.209. The degree of relevance to be used has been determined prior to the experiment. The researcher used 5% (0.05) significance level. The result from the first computation above is 0.209, it is compound with the value of T-table with the numerator is 3 and df of dominator is 124. Based on the table on T-table, it is known that T-value on a significant level 0.05. It shows that the value of T-value is higher than T-table (0.209>0.05). Therefore, it means that the variance of two score is homogenous.

The researcher will describe the hypothesis test results in this section. This test is used to know whether it is effective or not using TikTok videos to increase students' vocabulary. The result as the table 5:

Table 5. The Calculation of Hypothesis Analysis

		Independent Samples Test									
		Equality of Variances		t-test for Equality of Means							
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Interval of the		
										Lower	Upper
Score Test	Equal variances assumed	0.004	0.951	4.656	62	.000	8,219	1.765	4,690	11.747	
	Equal variances not assumed			4.656	61,999	.000	8.219	1.765	4.690	11.747	

From the SPSS computation, the result of SPSS shows the Sig. (2- tailed) is 0.000 < 0.05, if the Sig. (2- tailed) is less than 0.05, the data is significantly different [23]. It can be concluded that there is a There is a considerable discrepancy between the results from the experiment and the control group. It means that the null hypothesis (HO) is rejected, and the alternative hypothesis (Ha) is accepted. Therefore, the researcher concludes that using TikTok videos is effective to increase students' vocabulary of the eighth grade in the academic year of 2022/2023.

3.3 Discussion

1. The result of students' English vocabulary at the eighth grade of SMPN 36 Purworejo academic year 2022/2023.

a) The Students' English Vocabulary in Control Group

Based on the data, the researcher has analyzed the findings of students' English vocabulary in eighth grade of SMPN 36 Purworejo academic year 2022/2023, with the highest score in the control class being 67 and the lowest score in the pre-test being 37. The mean of the pre-test is 52.09, the pre-test range is 30; the pre-test median is 50; the pre-test mode is 50; the pre-test standard deviation is 8.60; and the variance is 73.89. The pre-test total score is 1667. Meanwhile, with the highest based on the pre-test findings in the control class, the highest post-test score is 77, and the lowest is 47. The post-test mean is 62.28; the post-test range is 30; the standard deviation is 7.05; and the variance is 49.69. The total post-test score is 1993. According to the mean score computation, the mean of the post-test was higher than the mean

is the pre-test (61.50 > 50.00). Additionally, the 32 samples, which were analyzed based on the students' achievement classification. It means that the students of SMPN 36 Purworejo in the academic year of 2022/2023. The post-test control class shows there are good results in their increase vocabulary. From 32 samples, no student (0%) categorized excellent, 12 students (38%) categorized good, 17 students (53%) categorized sufficient, 3 students (9%) categorized fairly sufficient, and 0 student (0%) categorized poor. The mean score of the pre-test is 50.00, which is categorized fairly sufficient. Students get treatment from the researcher after completing a pre-test. Following that, the students have conducted a post-test, with a mean score of 61.50, which categorized as sufficient. It signifies that after receiving therapy from the researcher, students' success improves but is not higher than students' accomplishment in the experimental class.

b) The Students' English Vocabulary in the Experimental Group

Based on the pre-test results, the researcher has analyzed the findings of students' English vocabulary at the eighth grade of SMPN 36 Purworejo academic year 2022/2023, with the highest score in the experiment class being 67 and the lowest score in the pre-test being 37. The mean of the pre-test is 52.25, the pre-test range is 30; the pre-test median is 53; the pre-test mode is 57; the pre-test standard deviation is 8.94; and the variance is 79.87. The pre-test total score is 1672. Meanwhile, with the highest based on the pre-test findings in the experimental class, the highest post-test score is 83, and the lowest is 53. The post-test mean is 70.50; the post-test range is 30; the standard deviation is 7.07; and the variance is 50.00. The total post-test score is 2256. From the mean score computation, the mean of the post-test is higher than the mean of the pre-test (70.50 > 52.25). Additionally, from the 32 samples, which have been analyzed based on the students' achievement classification, it means that the students of SMPN 36 Purworejo in the academic year of 2022/2023 [24] [23]. The post-test experimental class shows that there are good results in their increased vocabulary. The post-test in the experiment shows that there are 5 students (16%) categorized excellent, 15 students (47%) categorized good, 1 student (3%) categorized sufficient, and 0 student (0%) categorized fairly sufficient and poor. The mean score of the pre-test is 52.25, which belongs to a fairly sufficient category. Students get treatment from the researcher after completing a pre-test. Following that, the students conducted a post-test, with a mean score of 70.50, which belongs to the good category. It means that there is an improvement in students' achievement after getting treatment from the researcher.

2. The effectiveness of using TikTok videos to increase students' English vocabulary at the eight-grade of SMPN 36 Purworejo academic year 2022/2023.

The results from several tests are used as the basis for an analysis of the effectiveness of using TikTok videos to increase students' English vocabulary. The researcher conducted three tests, namely the normality test, the homogeneity test, and a hypothesis test, to determine whether or not the use of TikTok videos is effective to increase students' English vocabulary and the significance of TikTok videos is effective to increase students' English vocabulary. The calculation, the researcher has used SPSS 25 to analyze data. Based on the presented data normality test, it shows that both the post-tests of the experimental group and the control group (Sig.) are higher than 0.05 (0.113 and 0.200 > 0.05), which means that the data have a normal distribution. After knowing that the data have a normal distribution, the researcher computed the homogeneity test. The data is calculated by the researcher using SPSS 25. The computation shows that the significance value (sig.) is greater than 0.05 (0.209 > 0.05). It means that the data for both groups is homogeneous. Following the researcher's determination that the data has a normal distribution and is homogeneous, the researcher use a hypothesis test to determine the significance of the data. The data is calculated by the researcher using IBM SPSS 25. Meanwhile, based on the post-test in the experimental class a mean score is 70.50, which is categorized good. It is higher than the mean of the post-test in the control class with a mean score of 62.28, which is categorized sufficient (70.50 > 62.28).

It shows that based on the mean, there is a difference alternatively, it can be interpreted that there is a significant effect on students' English vocabulary after being taught using TikTok videos, rather than the abilities of students who are taught without using TikTok videos to increase vocabulary. The effect occurs as one of the advantages that TikTok videos have as a medium for increasing TikTok vocabulary which contains a show of videos, and photos that can help students express their ideas based on their experiences. It has an impact on students' English vocabulary since the

students remember every memory in chronological order. Additionally, based on the hypothesis test computation, it shows that the value of T-value is higher than T-table ($0.209 > 0.05$). As a result, the alternative hypothesis (H_a) is accepted. In other words, using TikTok was effective to increase students' English vocabulary to the eight grade students of SMP Negeri 36 Purworejo in the academic year of 2022/2023.

4 CONCLUSIONS

There are several reasons why using TikTok videos is effective to increase vocabulary, including the a statistically significant difference in mean scores in the post-test from both of the classes and the results of the hypothesis test on students' English vocabulary.

Based on the mean score, the post-test in the experimental class with a mean score of 70.50, which belongs to the good category was higher than the mean of the post-test in the control class with a mean score of 62.28, which belongs to the sufficient category ($70.50 > 62.28$). It shows that based on the mean, there is a difference of 8.22. Alternatively, it can be interpreted that there is a significant effect on students' increased English vocabulary after being taught using TikTok videos media, rather than the ability of students taught without using TikTok videos media to increase vocabulary. The T value is higher than the T table ($4.656 > 2.000$). By using 0.05 significance level, the independent sample t-test Sig. (2-tailed) is $0.000 < 0.05$. As a result, the alternative hypothesis (H_a) is accepted. In other words, using TikTok videos is effective to increase students' English vocabulary at the eighth grade of SMPN 36 Purworejo in the Academic Year 2022/2023. Moreover, it is supported by other studies from other researchers that are concerned with the use of TikTok videos, which state that the use of TikTok as a medium for increase vocabulary is effective.

From the questionnaire, it is possible to determine that learners feel enjoyed and interested in studying English vocabulary by using TikTok videos. Most students assume that TikTok videos train their increase vocabulary well. The students get many benefits through that video, such as learning about flexibility, variant content, and improve memorized, pronunciation, accent, and fluency. It means students have a good perception of using TikTok videos in increase vocabulary.

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