

The Use of Quizizz and Google Forms as Formative Assessment Tools of English Grammar

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Abstract

The purpose of this study was to investigate the use of Quizizz and Google Forms as formative assessment tools of English grammar. In this research, the researcher applied experimental design. The researcher used Non-randomized control group, Pretest-Posttest design. Two classes were chosen as the sample of the research which contains thirty students for each class. In the pretest, both groups used Google Forms to know the students' grammar performances. In the posttest, the experimental group used Quizizz to do the test while the control group used Google Forms test. The researcher conducted Non Parametrical Mann Whitney U Test. The Mann-Whitney Test Ranks shows the mean rank score for control group was 31.33 while the experimental group was 29,67. The result of the Test Statistic shows that sig (2-tailed) is 0,710. Then, Asymp. Sig (2-tailed) shows that the sig (2-tailed) was higher than the significance level ($0,710 > 0,05$). So then, there was no significant difference in students' grammar performance between those who do Quizizz grammar tests and Google Forms grammar test.

Keywords: Usage, Quizizz, Google Forms, Assessment, Formative Assessment, Grammar

Introduction

Education is the process of teaching and learning, especially for all ages. The aim of education is to give knowledge and develop the students' abilities (Saidah, 2016:1). Then, Finding out students' improvement is also one of teachers' crucial duties and this is known as assessing. It makes the teaching and learning process more efficient (Cameron, 2001).

There are two kinds of assessments; formative assessment and summative assessment. In the formative assessment, the process is used by the teachers and students to provide feedback for the next activity (Box, 2019). On the other hand, the summative assessment presents the final result of learning. The objective of summative assessment is to provide data and evaluate the whole what students have learned (Heick, 2018). Normally, the summative assessment can be applied by giving examination (Harmer, 2007).

In the way of assessing, ICT can be the alternative of manual scoring because it simplifies the whole process of it. ICT or also known as Information and Technology (IT) refer to the use of technology to access any kinds of information in the whole world (Pearson, 2003). Currently, the world of education is influenced by a plethora of emerging technologies. E-Assessment eases the way assessing students' achievement on what they have worked all day. According to Redecker (2013) it focuses on increasing efficiency and effectiveness of test administration.

Quizizz is an online game based tool that allows the teacher to guide the students-paced formative assessment in a fun teaching-learning model. Quizizz is a students-directed assessment model. It can help the students associate to the quiz, rising learning effort, enhancing learning motivation and academic achievement (Basuki, 2019).

Another E-assessment tool, which is often used by teachers, is Google Forms. Some reasons to utilize Google Forms for students' assignments are stated regarding its benefit, such as providing different types of questions, involving the validation alternatives, observing students' progress, etc. Google Forms can be used for a kind of productivity assignment (Jazil, S., Manggiasih, L. A., Firdaus, K., Chayani, P. M., & Rahmatika, S. N., 2020).

Based on the terms above, Thus, the researcher is interested in conducting the research under the title “The Use of Quizizz and Google Forms as Formative Assessment Tools of English Grammar.”

Method

Research Design

In this research, the researcher applies experimental design. The researcher used Non-randomized control group, Pretest-Posttest design based on the theory of Ary et al. (2010) theory. In the pretest, the researcher gave twenty multiple choice questions to both classes. The pretest used Google Forms to know the students' prior grammar performances before being given the treatment. After that, in posttest, the experimental group used Quizizz to do the test while the control group did Google Forms test.

Participants

The researcher conducted the research at SMA Negeri 1 Jombang. In this research, the research applied simple random sampling because all the members of the population have an equal and independent chance to be included in random sample (Ary *et. al*, 2010). The population of this research is the students of SMA Negeri 1 Jombang in the academic 2019/2020 year. The population for this research was at least 270 students. Two classes are then chosen as the sample of the research which both classes contains thirty students. Those classes are chosen based on the English teacher's recommendation.

Instruments

To analyze the data, the researcher did statistical analysis with the help of SPSS Program to know significant difference between the mean scores of experimental and control group. Prior to the data analysis, assumption of normality and homogeneity were done with the following results.

1. The Result of Normality Test

In the posttest, the normality of the experimental group both Kolmogorov-Smirnov and Shapiro-Wilk, the significance value is higher than 0.05. Thus, the data distribution is normal. However, the significance value of control groups is 0,007 lower 0,05. Thus, the data distribution is not normal.

2. The result of Homogeneity

In the posttest, the homogeneity, based on mean, the significance value of Levene's test is 0.194. This value is higher than 0.05, so it can be investigated that the data of this research between experimental and control group is homogenous.

Data Analysis

Based on the assumption tests results, it can be seen that the data in the control group is not normally distributed. Thus, the assumption of the normality is not fulfilled. In this case, the researcher implemented a Non Parametrical Mann Whitney U Test to analyze the data using SPSS Statistical Application. The results of Mann Whitney U Test and Test Statistic is delivered in the findings.

Findings

Table 1 Mann Whitney U Test Rank

	Class	N	Mean Rank	Sum of Ranks
Score	Control	30	31.33	940.00
	Experiment	30	29.67	890.00
	Total	60		

The Table 1 Mann-Whitney Test Ranks shows that the mean rank score for control group is 31.33 while the experimental group is 29,67. Thus, it can be interpreted that the control group is higher than the experimental group by difference 1.66. Following the result of Mann Whitney Test Rank, the result of test statistic is presented in the Table 3.6 Test Statistic.

Table 2 Test Statistic

	Score
Mann-Whitney U	425.000
Wilcoxon W	890.000
Z	-.372
Asymp. Sig. (2-tailed)	.710

Based on the Table 2 Test Statistic above, the result of the Test Statistic shows that sig (2-tailed) is 0,710. Then, Asymp. Sig (2-tailed) was compared with the significance level (0,05). It shows that the sig (2-tailed) is higher than the significance level ($0,710 > 0,05$). Thus, the null hypothesis (H_0) is accepted. So then, There is no significant difference on students' grammar performance between those who do Quizizz grammar test and those who do Google Forms grammar test which is based on the tenth class Indonesia national syllabus 2013 revision 2016 in the point 3.8 & 4.8.

Discussion

The rapid changes of technology has simplify teacher to do assessment. Harmer (207:379) declared that the way in measuring students' understanding and ability following the educational process. Quizizz and Google Forms can perform the aims of assessment in simple and detail way. Ferrari, Cachia, and Punie (2009) stated that this phenomenon allows the quality of both teaching and learning to be developed.

In this situation, the role of ICT can solve the face to face class while it is banned by the government (Redecker et al., 2010). The features of both e-assessment tools eases teacher to monitor and develop the students' performance.

The result of the students' worksheet, in Quizizz and Google Forms, are formatted in clear way (Gavin, 2019). Based on Gavin (2019) by using those tools, giving feedback to students is much easier because students' worksheet has been fragmented clearly based on each category, like: correctness, attempt and score (Cameron, 2001:215).

In the term of E-Assessment, both Quizizz and Google Forms are effective in handling the process of learning. Google Forms has multiple-choice question format just like Quizizz, but Google Forms does not have a timer for each questions. Both Quizizz and Google Forms could random the question, but Quizizz is better because it can randomize the multiple-choice questions. This decreases the student dishonesty when they want to cheat their friends, and it gave valuable and legit result.

The results of this research give additional information on the use of Quizizz as formative assessment tool compared to Google Forms. The finding showed that there is no significance difference on the student who used Quizizz grammar test and who do Google Forms grammar test because the sig (2-tailed) of the Test Statistic in the Table 4.4 above is higher than the significance level ($0,710 > 0,05$).

The researcher reveals that students' grammar performances remain similar in result either they do it by using Quizizz or Google Forms as a formative assessment tool. It is showed on the result of the posttest which was interpreted by SPSS 17. The sig (2-tailed) of Mann-Whitney U Test (0,710) was higher than 0,05. The result of Mann-Whitney Test Ranks showed that the experimental group score is lower than the control group ($29,67 < 31,33$). In conclusion, there is no significant difference on students' grammar performance between those who do Quizizz grammar test and those who do Google Forms grammar test.

Conclusion and Suggestions

Based on the problem statement and the result of the data analysis, it can be concluded that the students' grammar achievement who are using Quizizz as a formative assessment tool preferably of Google Forms is significantly lower than those who are using Google Forms. Teachers are freely to choose Quizizz or Google Forms as formatives assessment tools of English grammar.

For teacher, the teacher should be more creative in doing assessment in which they can use some e-assessment applications to ease and maximize formative assessment. Teachers are free to choose either Quizizz or Google Forms to do the formative e-assessment. Those tools are powerful and useful when the teacher can apply it in the teaching and learning process.

For further researcher, when validating and converting the tryout questions into pretest and posttest, the researcher indicates that Google Forms has a lack in showing the correctness of the students' answer because it did not differ which answer is correct or incorrect. But, while the researcher was collecting the posttest score, Quizizz eased the process by showing a green color in the correct answer and showing red color in an incorrect answer for every single students' answer. The difference in that feature should be investigated further.

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