

ENHANCING LISTENING COMPREHENSION BY USING EDPUZZLE APPLICATION AT SMP TAMAN SISWA PEMATANGSIANTAR

¹Farhan Ammar, ^{2*}Indra Jayanti Damanik, ³Marhaeni K.D Matondang

^{1),2),3)}Fakultas Keguruan Dan Ilmu Pendidikan Universitas Simalungun

*Email: jayantidamanikiin@gmail.com

ABSTRACT

The aim of this research is to find out the effectiveness of using EdPuzzle application in enhancing listening comprehension at the eighth grade students of SMP Taman Siswa Pematangsiantar. This was a research with quantitative approach. The method in this research was a pre-experimental design, specifically a one one-group pre-test and post-test design. The population of this research were students of eighth grade SMP Taman Siswa Pematangsiantar in academic year 2025/2026, which consisted of 3 classes with a total of 72 students. One class was taken as the sample of eighth grade at junior high school, consisting of 24 students. The technique used in sampling is simple random sampling technique. It was used the listening test for the instrument and the data was analyzed using SPSS 27 through 4 steps, namely frequency test, statistical table test, normality test and hypothesis test. Based on the data of the analysis, it could be concluded that hypothesis testing of pre-test and post-test scores. It is found that $t_{count} = 24,582 > t_{table} = 2,064$ at the significance level $\alpha = 0,05$ and degrees of freedom (df) = 23, null hypothesis (H_0) is rejected and alternative hypothesis (H_a) is accepted. It means that there are significantly differences on students' comprehension by using EdPuzzle application and without using EdPuzzle application in enhancing listening comprehension at eitght grade of SMP Taman Siswa Pematangsiantar.

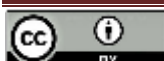
Keywords: *EdPuzzle Application, Listening Comprehension.*

I. INTRODUCTION

Background of Research

Listening is one of the essential skills in learning English. It plays a crucial role in helping students understand spoken language, interpret messages, and respond appropriately in communication. Through listening, students are able to receive information, recognize pronunciation, and comprehend meaning in various contexts. Therefore, mastering listening is important as it becomes the foundation for developing other English skills

However, many students still experience difficulties in listening comprehension. They often struggle to understand spoken English due to fast speech, limited vocabulary, unclear pronunciation, and lack of concentration. In addition, students are not accustomed to listening to English in their daily learning activities, which makes it harder for them to follow and



interpret spoken messages. These problems also reduce students' motivation and confidence during listening activities in the classroom.

Based on observation conducted at SMP Taman Siswa Pematangsiantar, students' listening ability is still relatively low. Many students are unable to catch the meaning of the audio, identify words correctly, and respond to listening materials. This condition is caused by conventional teaching methods and the lack of interactive learning media, which makes the learning process less interesting and less effective.

To overcome these problems, teachers need to apply innovative and interactive learning media. One of the effective tools is the EdPuzzle application. EdPuzzle is a video-based learning platform that allows teachers to integrate videos with interactive questions. By using EdPuzzle, students can focus more on listening activities, as they are required to watch videos carefully and answer questions during the process. Therefore, EdPuzzle can make learning more engaging, increase students' motivation, and improve their listening comprehension.

The Problem of Research

Based on the background of the problem above, the research problem can be formulated as follows: *“Does the use of EdPuzzle application have a significant effect on students' listening comprehension at the eighth grade of SMP Taman Siswa Pematangsiantar?”*

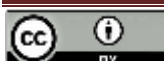
The Objective of Research

In discussing this research, the researcher puts forward the main objective of the study as follows: *“To find out whether the use of EdPuzzle application has a significant effect on students' listening comprehension at the eighth grade of SMP Taman Siswa Pematangsiantar.”*

THE REVIEW OF LITERATURE

The Definition of Listening

Listening is one of the essential skills in learning English. It is the process of receiving, understanding, and interpreting spoken language. Through listening, students are able to gain information, recognize pronunciation, and comprehend meaning in communication. Listening requires students to focus their attention, understand vocabulary, and interpret the speaker's message



accurately. According to Brown (2001), listening is a complex cognitive process that involves understanding spoken input through recognizing sounds, interpreting meaning, and responding appropriately. Therefore, students need proper guidance and effective learning media to improve their listening comprehension.

Listening Comprehension

Listening comprehension refers to the ability to understand and interpret spoken messages accurately. It involves several processes such as recognizing sounds, understanding vocabulary, and interpreting meaning based on context. Listening comprehension is considered a difficult skill because students must process information quickly while listening. Students often face problems such as fast speech, unfamiliar vocabulary, and lack of concentration. Therefore, appropriate teaching strategies are needed to help students improve their listening comprehension effectively.

Teaching Listening

Teaching listening is an important part of English language learning. It aims to help students understand spoken English and respond appropriately in communication. According to Harmer (2004), teaching listening involves guiding students to understand meaning, recognize language patterns, and develop listening strategies. Teachers need to use interesting and interactive media to support listening activities. Without effective methods, students may feel bored and have difficulty understanding listening materials.

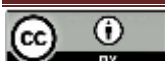
EdPuzzle Application in Learning

EdPuzzle is a digital learning application that uses video as the main instructional media. It allows teachers to integrate videos with interactive questions to support students' learning. By using EdPuzzle, teachers can insert questions at specific points in the video, which helps students stay focused and actively engaged during listening activities. The use of video combined with questions helps students understand the content better and improves their listening comprehension. In addition, EdPuzzle increases students' motivation and participation because it creates an interactive and enjoyable learning environment.

II. THE METHOD OF RESEARCH

The Research Method

Research methods are systematic approaches used to collect, analyze, and interpret data in order to answer research questions or test hypotheses. These methods can be quantitative, qualitative, or a combination of both, depending on the objectives of the study. Creswell & Creswell (2017) define research methods as techniques for understanding a



phenomenon, while Punch & Oancea (2014) describe them as structured steps in seeking scientific knowledge.

In this study, the researcher applied a quantitative research approach, which focuses on collecting and analyzing numerical data to identify patterns, relationships, or trends. Quantitative research aims to quantify variables and produce generalizable results. The research used a pre-experimental design, specifically a one-group pre-test and post-test design. This design was used to determine the effect of using the EdPuzzle application on students' listening comprehension by comparing the results before and after the treatment.

The Technique of Collecting Data

A data collection technique is a method used in research to obtain accurate and complete data from respondents. In this research, the data were collected by using listening tests. The tests were divided into two parts, namely pre-test and post-test.

The pre-test was administered before the treatment to measure students' initial listening comprehension. Meanwhile, the post-test was conducted after the treatment using the EdPuzzle application to determine students' improvement in listening comprehension. Through these tests, the researcher was able to compare students' performance before and after the implementation of EdPuzzle.

The Technique of Analyzing Data

In this research, the researcher used Statistical Program for Social Science (SPSS) 27.0 to analyze the data. The data analysis was carried out systematically through several steps:

First, the researcher conducted a frequency test to identify students' achievement and to see how many students reached the minimum mastery criterion (KKM). After that, the data were analyzed using descriptive statistics to determine the mean, median, and standard deviation of the scores.

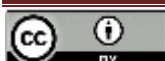
Before testing the hypothesis, the researcher conducted normality tests. The normality test was used to determine whether the data were normally distributed.

After confirming that the data were normal, the researcher applied the t-test to test the hypothesis. The t-test was used to determine whether there was a significant effect of using the EdPuzzle application on students' listening comprehension.

III. ANALYSIS OF DATA

Data Analysis

The data above present the findings of a study conducted to evaluate the effect of using the EdPuzzle application on students' listening comprehension. The study was conducted with a sample of



24 students. The researcher administered a pre-test and post-test to measure the effectiveness of the EdPuzzle application in improving students' listening comprehension.

In the pre-test, students' listening comprehension was still relatively low. Many students had difficulty understanding spoken English, recognizing vocabulary, and interpreting the meaning of the audio. This indicates that students still faced problems in listening activities before the treatment was given

After the treatment using the EdPuzzle application, the researcher conducted the post-test. The results showed a significant improvement in students' listening comprehension. Students were able to better understand the audio, identify important information, and respond correctly to the listening materials. This indicates that the use of EdPuzzle helped students become more focused and engaged during listening activities.

Furthermore, the researcher conducted hypothesis testing using the t-test. The result showed that **t-count = 24.582**, while **t-table = 2.064** at the significance level $\alpha = 0.05$ with degrees of freedom (df) = 23. Since the t-count value (24.582) is higher than the t-table value (2.064), it means that the null hypothesis (H_0) is rejected and the alternative hypothesis (H_a) is accepted.

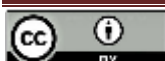
This finding indicates that there is a significant effect of using the EdPuzzle application on students' listening comprehension at the eighth grade of SMP Taman Siswa Pematangsiantar.

IV. CONCLUSION AND SUGGESTION

Conclusion

Based on the result of hypothesis analysis, it was found that the t-count score was 24.582. Referring to the t-table with degrees of freedom (df) = 23 and $\alpha = 0.05$, the t-table value was 2.064. Since the t-count value (24.582) is higher than the t-table value (2.064), it means that the null hypothesis (H_0) is rejected and the alternative hypothesis (H_a) is accepted. This indicates that there is a significant effect of using the EdPuzzle application on students' listening comprehension at the eighth grade of SMP Taman Siswa Pematangsiantar.

There is an effect of using the EdPuzzle application on students' listening comprehension. The students who were taught by using EdPuzzle became more active and interested in the learning process. In this class, the researcher used EdPuzzle as a learning media to help students improve their listening skills. During the teaching process, the



researcher presented learning materials through interactive videos and guided students to focus on listening activities. The students were able to understand the audio better, identify important information, and respond to the questions provided in the videos. They also became more focused and motivated because the learning process was more engaging and interactive. Therefore, the EdPuzzle application can be considered an effective learning media to improve students' listening comprehension.

Suggestion

According to the results of the research, there are several suggestions presented for teachers, students, school, readers, and future researchers.

1. Teachers

Teachers are encouraged to utilize digital learning media such as EdPuzzle in teaching listening. The use of interactive videos can help students understand the material more easily and increase their engagement during the learning process.

2. Students

Students are suggested to actively participate in listening activities using interactive media, as it can help them improve their listening comprehension, focus, and understanding of spoken English more effectively.

3. School

The school is recommended to support the implementation of technology-based learning by providing adequate facilities such as internet access, projectors, or digital devices. This support can enhance the quality of teaching and learning activities.

4. Readers

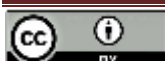
Readers who are interested in English language teaching can use this research as a reference for understanding the effectiveness of digital media in improving listening comprehension.

5. Future Researchers

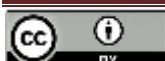
Future researchers are encouraged to conduct similar studies with larger samples, different grade levels, or different language skills such as speaking, reading, or writing. They may also compare EdPuzzle with other digital learning media to obtain broader findings.

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