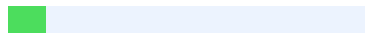




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Improving English pronunciation skill <sup>7</sup> using tongue twister technique through twistify application in junior high school

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## Abstract

The objective of this research was to find out the result of the pronunciation skill of students in Junior High School before and after being given treatment using tongue twister technique through Twistify application. The populations in this research were students of class VIII SMP Negeri 1 Tayu, Pati, Central Java, Indonesia. The sample consisted of 34 students from class VIII B. The researcher used pre-experimental and implemented one group pre-test and post-test design. Based on the results, there was an increase in students' pronunciation skill from the pre-test with the mean score of 58.35 to the post-test with the mean score of 80 and an increase from the pre-test to the post-test by 37.10%. From the data calculation, the researcher found that t-test result was 46.442, and the value of df (degree of freedom) was 33. The value of t-table was obtained from df = 33 so that t-table = 2.035, so ( $t_0 > t_t$ ), 46.442 > 2.035. <sup>3</sup> The Alternative Hypothesis ( $H_a$ ) was accepted and Null Hypothesis ( $H_0$ ) was rejected. Thus, there was a significant difference between students' pronunciation skill before and after being given treatment using the tongue twister technique through Twistify application.

Keywords: Pronunciation, tongue twister, twistify

## 1. Introduction

Language functions as a tool used by humans to communicate with each other in daily social interactions. With language, humans can provide information, express opinions, give criticism and suggestions, persuade someone, and others. Crystal & Robins (2023) states that language is a conventional system consisting of manual, spoken, and written symbols that allows all people in a particular culture to interact or communicate. Therefore, humans without language **2 cannot communicate with each other**. In this world, many languages are used by humans to communicate. **5 The premier source of linguistic data, there are** approximately 7,168 **spoken languages in the world today** (Eberhard et al., 2023).

However, this number is constantly changing and is not included in dialects. **2 Language** **has a number** that is not fixed because language develops and changes according to society and situations in the world.

In this world, there are **various kinds of** languages that humans can use to communicate, one of which is English. English is also referred to **7 as an international language** throughout the world, so many people use English to communicate. According to Roux (2014), many people use English, so English **4 has become the** language commonly used and **the dominant language** for international business, academia, science, and technology. English is designated as **the official language** in 67 countries, while 27 countries adopt **English as a second language** (Ilyosovna, 2020). **Because of the** importance of using **English as an** international communication tool, everyone should learn English as early as possible.

Students must master the four main English skills, namely speaking, reading, writing, and listening. Speaking is one of the priority abilities that students must master. Richards (2008) argues that for second language learners and foreign language learners, speaking ability is a very important priority. Therefore, in speaking skill a student must have good

and correct pronunciation skill. If the speaker has very bad pronunciation, the listener <sup>2</sup> cannot understand the meaning of the speaker's speech (Gilakjani, 2011). This is because good and correct pronunciation makes the listener understand the message and intent to be conveyed by the speaker.

The research location was at SMP Negeri 1 Tayu. According to observation that the researcher made before, it was found that the students were still struggling to pronounce English fluently. Students at SMP Negeri 1 Tayu admitted that they had difficulty pronouncing English words or sentences because the sound of English words or sentences was different from the written form. Many students also felt confused because

<sup>4</sup> the pronunciation of words in English was very different from the pronunciation in Indonesian. They added that they felt insecure and nervous when they pronounced English. Besides that, there were several factors, such as the lack of hours of learning English and the habit of students using their mother tongue or regional languages.

Nowadays, there are many techniques, strategies, or methods that teachers can use to improve students' English pronunciation skill. One effective technique for teaching pronunciation to students in an easy and fun way is <sup>7</sup> to use the tongue twister technique through Twistify application. Tongue twister refers to a collection of words that present difficulties to pronounce correctly, fluently, and quickly (Carmen, 2010). This technique makes students practice pronouncing English correctly by using several similar words. <sup>6</sup>

Tongue twister is highly interesting because they incorporate various sounds that are similar while often having distinct meaning and written form. Not only that, tongue twisters can make learning pronunciation fun and easy so that they are motivated to be enthusiastic about learning pronunciation.

While, Twistify is an application to test students' pronunciation fluency by using difficult-to-pronounce phrases or commonly known as tongue twister. Twistify created by Davin Seng and released on June 15, 2020. Twistify is listed in the education category on the Google Play Store and more than 10,000 people have downloaded it. Twistify application can be a tool to measure pronunciation skill and identify weaknesses so that pronunciation skill can

be improved. Twistify application can help students learn English pronunciation in an easier and more fun way.

According to the background of the research, the problem statements can be summarized as follows:

1. How is the pronunciation skill of students in grade 8th <sup>1</sup> of SMP Negeri 1 Tayu before they are taught by using the tongue twister technique through Twistify application?
2. How is the pronunciation skill of students in grade 8th of SMP Negeri 1 Tayu after they are taught by using the tongue twister technique through Twistify application?
3. Is there any significant difference in the pronunciation skill of students in 8th grade of SMP Negeri 1 Tayu before and after they are taught by using the tongue twister technique through Twistify application?

## 2. Theoretical Framework

### Pronunciation

According to Oxford Learner's Dictionaries (n.d.), pronunciation is how people pronounce a language or a certain word or sound. Yates and Zielinski (2009) state that how sound is produced so that it can give meaning when speaking is called pronunciation. Pronunciation is <sup>2</sup> one of the priority aspects in speaking English because pronunciation can affect the meaning of the speech. Gilakjani (2011) also adds that if the speaker has very bad pronunciation, the listener cannot understand the meaning of the speaker's speech. When the listener cannot understand the speaker's pronunciation, it causes miscommunication with other individuals. Therefore, pronunciation is an important component in oral communication, so that when people pronounce words correctly and clearly, they produce

6 a collection of speech units (Berry, 2021). In short, pronunciation refers to the way people pronounce words 2 to ensure that the contents of the conversation can be understood by others.

## Tongue Twister

Tongue twister refers to a collection of words that present difficulties to pronounce correctly, fluently, and quickly (Carmen, 2010). It is difficult to pronounce because they contain many similar sounds. Not only that, 6 tongue twister is highly interesting because they incorporate various sounds that are similar while often having distinct meaning and written form. Further, Gonzales (2009) asserts that in every language class, tongue twister is a fun activity. The faster someone can pronounce tongue twister sentences without stuttering, the better their language skills (Lutfiani, 2017). Tongue twister exercises can be beneficial for people learning English as they strengthen their speaking skill. The tongue twister also has the benefit of stimulating the brain to develop pronunciation skill. From this theory, it can be concluded 1 that tongue twisters are words that have a different written form but have the same pronunciation and must be spoken quickly. Tongue twisters can make learning pronunciation fun and easy so that they are motivated to be enthusiastic about learning pronunciation.

## Twistify

Twistify is an application to test students' pronunciation fluency by using difficult-to-pronounce phrases or commonly known as tongue twister. Twistify is an application that has been published by Davin Seng and released on June 15, 2020. Twistify is listed in the education category on the Google Play Store and more than 10,000 people have downloaded it. According to Seng, Twistify is made for people who want to improve their speech fluency, especially those who have speech difficulties. Seng adds that Twistify is different from other applications in that it can score the speech performance of tongue twister. Therefore Twistify application can be a tool to measure pronunciation skill and

identify weaknesses so that pronunciation skill can be improved.

### 3. Research Method

In this research, the researcher used quantitative design. The researcher used pre-experimental and implemented one group pre-test and post-test design. The researcher in this study only used one group without a control group. The group was given treatment using <sup>1</sup> the tongue twister technique through Twistify application.

The populations in this research were students of class VIII SMP Negeri 1 Tayu, Pati, Central Java, Indonesia. In this study, a technique was used to obtain a sample, namely purposive sampling technique. The sample for this study comprised 34 students from class VIII B. The researcher chose this class out of nine existing classes because in this class there were still many students who were unable to pronounce English words or sentences. In class VIII B only a few students mastered English pronunciation skill. This class was also a recommendation from the English teacher at SMP Negeri 1 Tayu.

The research instrument was carried out with a pronunciation test before being given treatment and after being given treatment. The test used the Twistify application where students individually had to pronounce a several tongue twister sentences. Twistify application <sup>3</sup> was able to check the correctness of students' pronunciation using the voice recognition service. An automatic score was available on the Twistify application after a student pronounces tongue twister sentence.

The researcher in this study used statistical data analysis techniques. The researcher used software, namely the <sup>12</sup> Statistical Package for the Social Sciences (SPSS) version 24 to analyze the data to find out the results of student tests conducted before and after receiving treatment.

### 4. Result and Discussion

#### 1. Students' Pronunciation Skill Before Using the Tongue Twister Technique through Twistify Application

The pre-test was given to students using Twistify application by pronouncing tongue twister sentences to test students' pronunciation skill before being given treatment. The pre-test was conducted on April 3rd, 2023. It consisted of 34 students. The results of pre-test can be seen in the following table:

Table 1. The List of Pre-Test Score

No.	Students' Initial Name	Score	Mark
1	ABDL	59	Fairly
2	ASA	52	Poor
3	AN	58	Fairly
4	AWN	50	Poor
5			



ADS

57

Fairly

6

ANA

71

Fairly Good

7

AN

65

Fairly

8

CMA

56

Fairly

9

DLF

60

Fairly

10

DRS

54

Poor

11

FFCC

59

Fairly

12

FA

64

Fairly

13

FNH

55

Poor

14

HW

51

Poor

15

IAA

56

Fairly

16

IAP

68

Fairly Good

17

JANK

52

Poor

18

JVSP

61

Fairly

19

KDL

63

Fairly

20

KOP

53

Poor

21

KNFN

55

Poor

22

NYR

62

Fairly

23

NAN

50

Poor

24

NAH

58

Fairly

25

NFA

66

Fairly Good

26

OSM

54

Poor

27

RMA

60

Fairly

28

RNZ

57

Fairly

29

SAA

55

Poor

30

SZA

59

Fairly

31

SFM

56

Fairly

32

TATD

73

Fairly Good

33

TSR

54

Poor

34

TB

61

Fairly

Table 2. Descriptive Statistics Pre-Test

N

Minimum

Maximum

Sum

Mean

Std. Deviation

Variance

Pretest

34

50.00

73.00

1984.00

58.3529

5.69892

32.478

Valid N (listwise)

34

From the results of the pre-test, the researcher found that the smallest score was 50 and the greatest score was 73. Meanwhile, the mean score was 58.35 and many students got the score was less than 60. This shows that the results of students' pronunciation skill scores are still low. Therefore, the researcher conducted treatment **18 using the tongue twister technique** through Twistify application to improve students' pronunciation skill.

## 2. Students' Pronunciation Skill After Using the Tongue Twister Technique through Twistify Application

The post-test was given after receiving treatment **2 to be able to** find out the comparison of students' pronunciation skill. Post-test was conducted on Tuesday, April 18th, 2023. It consisted of 34 students. In this study the post-test was to determine students' pronunciation skill after being given treatment using **1 the tongue twister technique** through Twistify application. The results of post-test can be seen in the following table:

Table 3. The List of Post-Test Score

No.

Students' Initial Name

Score

Mark

1

ABDL

79

Good

2

ASA

77

Good

3

AN

76

Good

4

AWN

70

Fairly Good

5

ADS

80

Good

6

ANA

88

Very Good

7

AN

86

Very Good

8

CMA

77

Good

9

DLF

80

Good

10

DRS

76

Good

11

FFCC

81

Good

12

FA

87

Very Good

13

FNH

78

Good

14

HW

69

Fairly Good

15

IAA



76

Good

16

IAP

86

Very Good

17

JANK

77

Good

18

JVSP

82

Good

19

KDL

87

Very Good

20

KOP

73

Fairly Good

21

KNFN

81

Good

22

NYR

86

Very Good

23

NAN

71

Fairly Good

24

NAH

79

Good

25

NFA

88

Very Good

26

OSM

83

Good

27

RMA

84

Good

28

RNZ

78

Good

29

SAA

75  
Fairly Good  
30  
SZA  
85  
Good  
31  
SFM  
79  
Good  
32  
TATD  
90  
Very Good  
33  
TSR  
74  
Fairly Good  
34  
TB  
82  
Good

Table 4. Descriptive Statistics Post-Test

N  
Minimum  
Maximum

Sum  
Mean  
Std. Deviation  
Variance  
Posttest  
34  
69.00  
90.00  
2720.00  
80.0000  
5.48276  
30.061  
Valid N (listwise)  
34

From the results of the post-test, the researcher found that the smallest score was 69 and the greatest score was 90. Meanwhile, the mean score was 80 and many students got the score was more than 80. This shows that the results of the students' pronunciation skills are good. There was an increase in students' pronunciation skill from the pre-test with the mean score of 58.35 to the post-test with the mean score of 80 and an increase from the pre-test to the post-test by 37.10%.

### 3. Result of the Normality Test

Table 5. The Result of Normality for Pre-Test and Post-Test

Based on table above, it can be known that the significance of the pre-test and post-test is 0.200. From these result, the 15 pre-test and post-test got the bigger significance than the level of significance that is 0.05 ( $0.200 > 0.05$ ), so it can be concluded that the data from both pre-test and post-test are distributed normally.

### 4. Paired Sample T-Test

Table 6. Paired Sample T-Test

The table shows that  $t_0$  (count) = 46.442 and  $df = N-1$  or  $34-1 = 33$ . 5 The value of t-table was obtained from  $df = 33$  so that  $t\text{-table} = 2.035$ , so ( $t_0 > t_t$ ),  $46.442 > 2.035$ . Thus, there

was significant difference between students' pronunciation skill before and after being given treatment using the tongue twister technique through Twistify application. Therefore, <sup>3</sup> the Alternative Hypothesis (Ha) was accepted and Null Hypothesis (H0) was rejected. Based on <sup>1</sup> the result of this study, the researcher was able to demonstrate that the tongue twister technique through Twistify application can be used as a new technique and application for learning English, especially to improve pronunciation. The researcher was able to demonstrate that using the tongue twister technique through Twistify application improved students' pronunciation skill significantly. The researcher was able to demonstrate that the students' pronunciation skills improved significantly before and after being given treatment using the tongue twister technique through Twistify application. <sup>2</sup> It can be a very good reason for teachers to start experimenting with new technique and application that are more interesting and fun in classroom learning activities, such as using the tongue twister technique through the Twistify application.

## 5. Conclusion (and Suggestion)

<sup>1</sup> The result of the pronunciation skill scores of the Junior High School before being given treatment using the tongue twister technique through Twistify application was found that the smallest score was 50 and the greatest score was 73. <sup>17</sup> The mean of students' score from the pre-test was 58.35 and many students got the score was less than 60. It was concluded that before being given treatment with <sup>1</sup> the tongue twister technique through Twistify application, the students' pronunciation skill was still low.

The result of the pronunciation skill scores of the Junior High School after being given treatment using the tongue twister technique through Twistify application was found that the smallest score was 69 and the greatest score was 90. <sup>17</sup> The mean of students' score from the post-test was 80 and many students got the score was more than 80. There was an increase in students' pronunciation skill from the pre-test with <sup>8</sup> the mean score of 58.35 to the post-test with the mean score of 80 and experienced an increase of 37.10%. It was concluded that after being given treatment with <sup>1</sup> the tongue twister technique

through Twistify application, the students' pronunciation skill was good.

From paired sample t-test the researcher found that t-test result was 46.442, and <sup>5</sup> the value of df (degree of freedom) was 33. The value of t-table was obtained from df = 33 so that t-table = 2.035, so ( $t_0 > t_t$ ),  $46.442 > 2.035$ . Thus, there was significant difference between students' pronunciation skill before and after being given treatment using the tongue twister technique through Twistify application. Therefore, <sup>3</sup> the Alternative Hypothesis ( $H_a$ ) was accepted and Null Hypothesis ( $H_0$ ) was rejected. Based on research result, the tongue twister technique through Twistify application is effective in improving students' pronunciation skill. So far, the researcher was the first to conduct research using the Twistify application.

In accordance with the conclusions above, the researcher has several suggestions.

Teachers should use <sup>7</sup> tongue twister technique through Twistify application as a new technique and application for learning English, especially to improve students' pronunciation skill. Teachers should start experimenting with new techniques and applications that are more interesting and fun in classroom learning activities, especially <sup>1</sup> in learning English. Teachers should take advantage of technological advances to make teaching and learning English easier and more enjoyable. Students should use tongue twister technique through Twistify application, because it can improve the students' pronunciation skill. Students should use technological advances to improve their skills, especially to improve pronunciation skill. Students should be more active and focused in learning and teaching activities in the classroom. For the future researchers should close the gaps and weakness <sup>10</sup> in this research. Future researchers should conduct research using new techniques and applications to improve students' English skills, especially pronunciation skill.

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