

CHAPTER III

RESEARCH METHODOLOGY

1.1 The Research Design

The design of this research is pre experimental research. It uses only one group of sample that pre-test (Y_1), treatment (teaching and learning process through YouTube media (X)) and post-test (Y_2). According to Jun Wang & George A. Morgan (2010), pre-experimental design is a single group of participants of multiple groups are observed after some intervention or treatment presumed to cause change. Although, they do follow some basic steps used in experiments. In this case, pre-experimental method used to find out the effect of YouTube media toward students' vocabulary mastery of the fifth grade at SDN 129 Pekanbaru.

Table 3.1
Research Design

Y_1	X	Y_2
Vocabulary Mastery	YouTube	Vocabulary Mastery
(pre-test)	(Media)	(post-test)

Where :

Y_1 : Pre-test

Y_2 : Post-test

X : Treatment

1.2 The Location and Time

This research was conducted at SDN 129 Pekanbaru which is located Sakuntala street and the time on February, 08th 2018.

1.3 The Population and Sample of the Research

1.3.1 Population

The population of this research was conducted all of the fifth year students of SDN 129 Pekanbaru in academic year 2017/2018. It consists of two class, that is from VA, VB; and has approximately 46 students. Altogether as in table 3.2.

Table 3.2
Population of the Research

Classes	Number of Students
VA	21
VB	25
Total	46

Table 3.3
Sub Design of Research

Class	Pre Test	Teaching Processes	Post Test
V _B	Y ₁	X ₁ X ₂ X ₃ X ₄	Y ₂

Where:

Y₁ : Administering Pre Test

X₁₂₃₄ : Teaching Treatment by Applying YouTube Media

Y₂ : Administering Post Test

1.3.2 Sample

A sample is a finite part of a statistical population whose properties are studied to gain information about the whole (Webster, 1985). When dealing with people, it can be defined as a set of respondents (people) selected from a larger population for the purpose of a survey.

However, the sample of this research is take from class VB as many as 25 students, as in table 3.4

Table 3.4
Sample of the research

Class	Students
VB	25

1.4 Instrument of the Research

To collect the data from the sample, the researcher use test. The form of test is multiple choice. The test material is taken from a textbook used in that schools. The researcher was used two series of test, pre-test and post-test. The pre-test was used to know students' score in vocabulary mastery before getting treatment. The post-test was used to know students' score

in vocabulary mastery after getting treatment. In pre-test and post-test materials, the test consist of 4 topics. The numbers of questions are 20 questions.

3.4.1 Variable X

The researcher was used YouTube media to improve students' vocabulary mastery.

3.4.2 Variable Y

It was important to master the vocabulary in learning English in order to achieve students' vocabulary.

3.4.3 Validity of the Instrument

This research was validated by lecturers and teacher of English subjects who teach in schools to be studied. The test had validated to students five grade, the result of validity of test is valid from 25 students.

3.4.4 Reliability of the Instrument

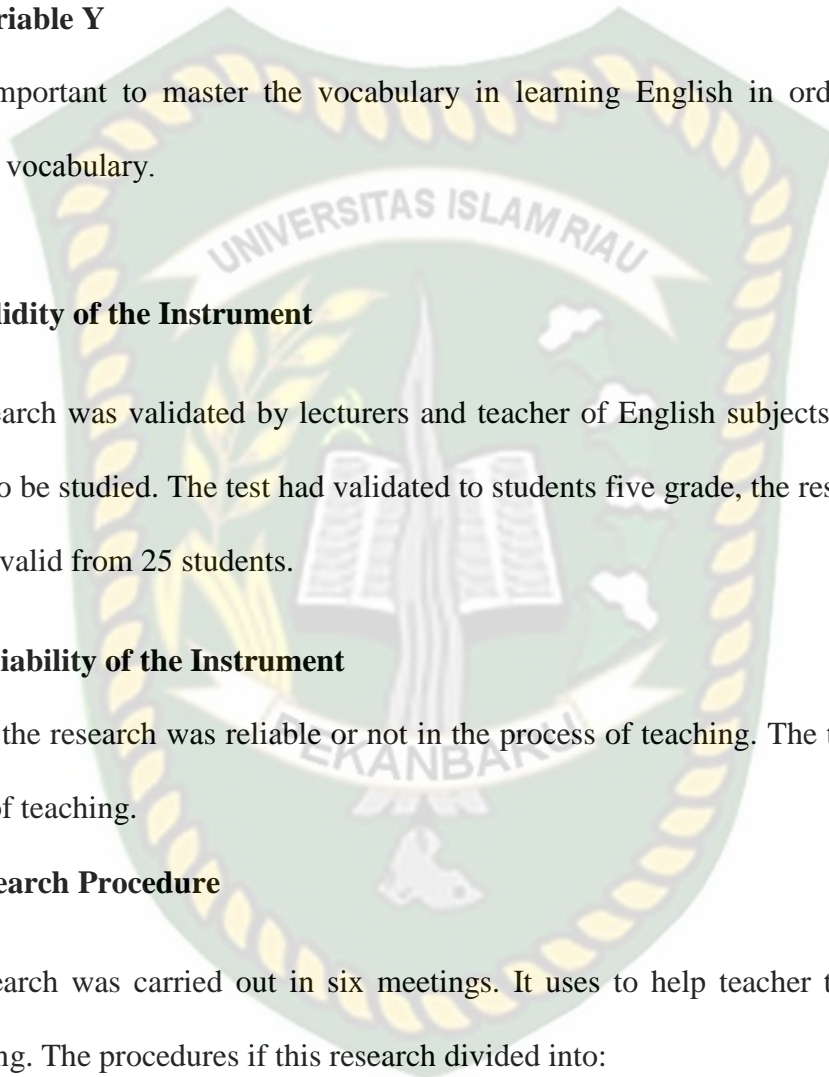
Whether the research was reliable or not in the process of teaching. The test reliable in process of teaching.

1.5 The Research Procedure

This research was carried out in six meetings. It uses to help teacher to achieve the goals of teaching. The procedures if this research divided into:

1.5.1 Pre-Test

Before treatment the students was given pre-test. It was given in the first meeting. The purpose of this activity is to determine the early background skill of students. Pre-test was conducted for the first meeting. The test items are multiple choices that consist



of 20 questions. The questions are consisting of 4 topics. The test is about in the kitchen based on curriculum in SDN 129 Pekanbaru.

Table 3.5
The Blue Print of Pre-Test Items

No	Materials	Topic	No of Items	Total Number
1.	In the kitchen	Noun	1, 3, 5, 7, 9	5
		Adjective	2, 4, 6, 8, 10	5
		Verb	11, 12, 13, 14, 15	5
		Adverb	16, 17, 18, 19, 20	5
Total				20

1. First Meeting

Pre-teaching:

- a. Greeting
- b. Check the attendance
- c. Give motivation

While teaching (doing treatment):

- a. Pre-test

Post-teaching:

- a. Submit the test

1.5.2 Treatment

After pre-test the students was given the treatment by used YouTube media in while teaching learning process. The researcher herself was teach the students; while the teacher was act as an observer and supervisor. The following are the steps of teaching vocabulary by YouTube media:

Table 3.6

The Blue Print of Treatment

Multimedia	Indicators	Materials
Video/Picture	Noun	The room at home
	Adjective	
	Verb	
	Adverb	
Video/Picture	Noun	Animals
	Adjective	
	Verb	
	Adverb	
Video/picture	Noun	Fruits
	Adjective	
	Verb	
	Adverb	
Video/Picture	Noun	The bathroom

	Adjective	
	Verb	
	Adverb	

1. Second Meeting

Pre-teaching:

- a. Greeting
- b. Check the attendance
- c. Submit the target of study

While teaching:

- a. The teacher was ask the students to give some examples about vocabulary of the room at home.
- b. The students was mention about the vocabulary.
- c. If the students know about some vocabularies, the teacher was give video contain some word of noun, adjective, verb and adverb..
- d. The teacher was ask the students to mention or write noun, adjective, verb and adverb with some word in order to be one correct sentence.

Post-Teaching:

- a. The teacher was close the teaching and learning process.

2. Third Meeting

Pre-teaching:

- a. Greeting

- b. Check the attendance
- c. Submit the target of study

While Teaching:

- a. The teacher was ask the students to give some examples about vocabulary of animals.
- b. The students was mention about the vocabulary.
- c. If the students know about some vocabularies, the teacher was make some pictures contain some word of noun, adjective, verb and adverb.
- d. The teacher was ask the students to mention or write the word of noun, adjective, verb and adverb with some word in order to be one correct sentence.

Post-Teaching:

- a. The teacher was close the teaching and learning process.

3. Fourth Meeting

Pre-teaching:

- a. Greeting
- b. Check the attendance
- c. Submit the target of study

While Teaching:

- a. The teacher was ask the students to give some examples about vocabulary of fruits.
- b. The students was mention about the vocabulary.

- c. If the students know about some vocabularies, the teacher was give the video/picture contain some word of noun, adjective, verb and adverb.
- d. The teacher was ask the students to mention or write the word of noun, adjective, verb and adverb with some word in order to be one correct sentence.

Post-Teaching:

- a. The teacher was close the teaching and learning process.

4. Fifth Meeting

Pre-teaching:

- a. Greeting
- b. Check the attendance
- c. Submit the target of study

While Teaching:

- a. The teacher was ask the students to give some examples about vocabulary of the bathroom.
- b. The students was mention about the vocabulary.
- c. If the students know about some vocabularies, the teacher was make some pictures or thing contain some word of noun, adjective, verb and adverb.
- d. The teacher was ask the students to mention or write the noun, adjective, verb and adverb with some word in order to be one correct sentence.

Post-Teaching:

- a. The teacher was close the teaching and learning process.

1.5.3 Post-Test

After doing pre-test and treatment, the researcher was given post-test. The test items was use for post-test is 20 items. The test is about in the classroom based curriculum in SDN 129 Pekanbaru. The test of Post-Test bellow:

Table 3.7

The Blue Print of Post-Test Items

No	Materials	Topic	No of Items	Total Number
1.	In the classroom	Noun	1, 3, 5, 7, 9	5
		Adjective	2, 4, 6, 8, 10	5
		Verb	11, 12, 13, 14, 15	5
		Adverb	16, 17, 18, 19, 20	5
Total				20

1. Sixth Meeting

Pre-teaching:

- a. Greeting
- b. Check the attendance
- c. Give motivation

While teaching (doing treatment):

- a. Post-test

Post-teaching:

- a. Submit the test

1.6 Data Collection Technique

1.6.1 Pre-Test

Pre-test was conducted to determine the students vocabulary mastery especially about kitchen as an indicator in this research. The researcher was be pre-test before treatment by use YouTube media was be done.

1.6.2 Post-Test

Post-test was conducted after treatment to know the effect of YouTube media toward students' vocabulary mastery. This test items are multiple choice that consist of 20 items that are:

- a. Noun 5 items
- b. Adjective 5 items
- c. Verb 5 items
- d. Adverb 5 items

1.7 Data Analysis Technique

- a. The data collect in this research was analyzed by using statistic. The researcher used T-test formula.