

Hak Cipta Diindungi Undang-Undang

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CHAPTER III

METHODOLOGY OF THE RESEARCH

3.1 Research Design

This research is an experimental research. According to Creswell (2012) experiment is testing an idea (or practice or procedure) to determine whether it influences an outcome or dependent variable. In this research, the researcher used quasi-experimental research. Creswell (2012) also stated that quasi experiment includes assignment, but it is not random assignment of participants to groups because the experimenter cannot artificially create groups for the experiment. Therefore, the researcher used quasi-experiment due to the limitation of the participants that consisted of two classes only.

In this research, the writer used an experimental design with pre test and post test was called experimental class administrated by using Synectics Strategy and another is the control class that was administrated without Synectics strategy. However, the material was given and proposed to each class. There are two test given in this research; they are pre-test given before the treatment and post-test are given after the treatment in order to find out the effect of use Synectics Strategy. The treatment is only given to experimental class.

3.2 Location and the Time of the research

This writer was conducted of Junior High School 32 Pekanbaru. It is located in Pekanbaru, Riau. It has conducted since January 2018.

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3.3 Subject and Object of the Research

The subject of the research is the Eight Grade students of Junior High School 32 Pekanbaru, and the object of this research is the using Synectics strategy on students' writing ability.

3.4 The Population and the Sample of the Research

3.4.1 The population of the research

The population of this research is the eighth grade students of SMPN 32 Pekanbaru. They are consisted of 5 classes and the total number of the students is 210. Based on the limitation of the research, the writer selected only two classes as the sample of this research. Based on Arikunto in Nurul, sampling is choosen as the representative of the population, which represents the population.

The Population of the research

Table 3.1

No	Class	Number of class
1	VIII 1	30
2	VIII 2	32
3	VIII 3	30
4	VIII 4	30
5	VIII 5	31
Total		153

3.4.2 The sample of the research

The writer used Cluster random sampling. It was done by selecting group (not individual) because all members of selected group had similar characteristics. After doing cluster random sampling, the

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writer took VIII 1 as the experimental class and VIII 2 as the control class.

3.5 Technique of Collecting Data

Collecting the data was one of the most important parts in a research. In this research, the writer used observation and test to collect the data.

a. Observation

According to Burton & Bartlett (2005) observation is activity of collecting data on what is happening in classroom. Observation was done to collect the data about teaching process done by synectics writing material.

The Observational Checklist of Using Synectics Writing Materials

Table 3.2

No	Indicators of Using Synectics Writing Materials	Alternative Answer	
		Yes	No
1	The teacher asks the students to identify vocabulary words or content terms.		
2	The teacher asks the students to provide students with words not related to the content. Students may use these words to create their comparisons.		
3	The teacher asks the students to create an example to model the synectic.		
4	The teacher asks the students to share their example with the class. Explain their logic or thinking for the comparison. Give students the opportunity to list additional ways that a comet might be like a toaster.		
5	The teacher asks the students to create their		

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	own comparisons. Students may work in teams or pairs. Allow students to select from the comparison options you've provided or to select their own objects for comparison.		
6	The teacher makes direct students to create a graphic illustration to accompany their synectics.		
7	The teacher makes direct small groups to share their creations with the class.		
Total			
Percentage			

b. Test

According to Brown (2004) test is a method to measure a person' ability, knowledge, or performance to perform the language.

1. Pre test was given before treatment. According to Creswell (2012)pre test provides a mesure on some attribute or characteristic that you asses for participant in an experiment before they receive the treatment.
2. Post- test was given after teaching several times, it was given to both of the classes. Post-test was used to collect the data about the students' creative writing ability of descriptive text after giving treatment to the experimental class and after giving no treatment to the control class

c. The Technique of Data Analysis

In analyzing observation data, the writer usedthe following formula to get the percentage of the observation (Sudjiono, 2007):

$$P = \frac{F}{N} \times 100\%$$

Where :

P : Percentage

F : Frequency of the score

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N : Number of Case

To see the level of success in implementing learning process, there were five categories that can be seen in the following table:

Table
The Level of Success in Implementing Learning Process

Table 3.3

No	Range	Categories
1	86 – 100	Very High
2	71 – 85	High
3	56 – 70	Average
4	41 – 55	Low
5	< 40	Very Low

After finding the difference, the writer was found out the effect size of the phenomenon. Pallant (2010) stated that effect size statistics provide an indication of the magnitude of the differences between your groups (not just whether the difference could have occurred by chance). The effect size statistic was used in this research is eta squared. For t-test, SPSS was not provide eta squared values. The formula of eta squared was as follows:

$$\eta^2 = \frac{t^2}{t^2 + (n_1 + n_2 - 2)}$$

Where:

η^2 : Eta Square

t : t obtained

n_1 : The number of experimental class

n_2 : The number of control class