

Research Method

A. Research Design

ess the rental research question.³⁷

³⁷ William. M.K. Trochim, *The research Method Knowledge Base*, 2nd Editon (Itacha, NY: Cornell Cusmtom Publishing, 1999), 71

uses quantitative/statistic characteristic, in purpose to testing the hypothesis that had been settle.³⁸ As this research aim to know the effect of timeline strategy in students writing recount text ability, this quantitative method matches the purpose of this research.

Quasi experimental design was applied in this research. Experimental research was the way to find a causal relationship between two factors that are deliberately caused by the researcher by reducing or setting aside other factors that interfere. Experiments are always done with the intent to see a treatment.³⁹ A quasi experimental design is one that looks a bit like an experimental design but lacks the key ingredient-random assignment.⁴⁰

The design which is used in this research has some characteristics. The first characteristic is that the researcher conducted the research in two classrooms. Those two classrooms will divide into one experimental group and one control group. The second characteristic is that the researcher measured both groups twice. The first measurement serve as the pretest to find out their homogeneity before the treatment, and the second one served as the post-test to find out the effectiveness of technique employ. Then, the researcher manipulated the experimental group by using a particular treatment which is the use of timeline strategy, while the control group will not use it. Finally, the researcher measures the dependent variables' effect after the treatments

³⁸ Sugiyono, Statistika untuk Penelitian (Bandung: Alfabeta Bandung, 2010)8

³⁹ Suharismi Arikunto, *Prosedur Penelitian Pendekatan Suatu Praktek* (Jakarta: Bina AKsara,1987),3

⁴⁰ William. M.K. Trochim, *The research Method Knowledge Base*, 2nd Edition (Itacha, NY: Cusmtom Publishing, 1999), 215

H₀ : There is no significant difference in students' English writing recount text taught by timeline strategy and traditional technique at the first year of SMA Hidayatul Ummah Surabaya.

Ha will be accepted if $t\text{-value} < t\text{-table}$

Ho will be accepted if $t\text{-value} > t\text{-table}$

T-table is the score gotten from t distribution, while t-value is the score gotten from calculation using the formula of t-test.

In the experiment research, there are two variables that will be manipulated by the researcher. They are independent variable (X) and dependent variable (Y). Independent variable is a factor which is manipulated by the writer to determine the relationship between the phenomena observed. While dependent variable is a factor which is observed and measured to determine the effect of independent variable.

1. Independent Variable

The independent variable (X) is timeline strategy used in writing a

recount text in the first year students of SMA Hidayatul Ummah.academic
year 2015/2016.

2. Dependent Variable

The dependent variable is (Y) is student's ability in writing recount text in the first year students of SMA Hidayatul Ummah academic year 2015/2016

D. Population and Sample

This study addresses the population of first year students of SMA Hidayatul Ummah, since this is a quasi experimental research, cluster sampling was assigned and results two classes of first year. The sample will be taken in first year of SMA. It will take 2 classes as experiment class. The first class will become the experimental and control group. There are 2 classes consist of 18 students in class X-1 and class X-2 consist of 18 students. X-1 will become the control class and X-2 will become the experimental class. it will take the second semester of first year of SMA Hidayatul Ummah Surabaya.

E. Research Setting and Subject

The subject and setting of this study is the first grade of SMA Hidayatul Ummah Surabaya. SMA Hidayatul Ummah was located in Jl. Mulyorejo No.92 Surabaya. The students from first year of senior high school were selected as the subject of this study because they get a specific learning based on their class. Especially writing recount text.

F. Research Procedure

The procedure of this study covered the following steps, namely: pretest, treatment 1, treatment 2 and posttest. To answer the research question of this study, pretest and posttest was collected. Pretest was conducted before treatment while posttest was conducted after treatment. Before the treatment was given to the experimental group, the researcher has been given some information to the teacher about timeline strategy and how to teach using timeline strategy because the researcher becomes an observer in the learning process. The English teacher of SMA Hidayatul Ummah has been taught the students in the experimental group using timeline strategy. There were some activities conducted to both groups to see the differences on achievement between experimental and control group. The research schedule is figured out in the text following table:

Table 3.2

The Research Procedure

No.	Experimental Group		Control Group	
	Date	Theme/ material	Date	Theme/material
1.	14 th March	Pretest	14 th March	Pretest
2.	15 th March	Treatment 1 teaching recount	14 th March	Teaching recount text

		text using timeline strategy Material : Unforgettable moment		with conventional technique Material : Unforgettable moment
3.	21st March	Treatment 2 teaching recount text using timeline strategy Material : Last holiday	21st March	Teaching recount text with conventional technique Material : Last holiday
4.	28th March	Post test	28th March	Post Test

The researcher prepared the teaching process before administering the activities above. It was undertaken two steps: First, the researcher prepared a appropriate materials for teaching process. Second, the researcher organized teaching procedure in the control and experimental group.

G. Data Collection Technique

In conducting a research, it is necessary to collect the data required. Data collecting can be done in many setting, various source and various means.⁴¹ It also known that research was a system attempt to provide answer to problem or a question. Then to solve the problem, pre test and post test was taken to collect the data.

1. Pretest

The data was collect through the pretest in both classes in order to know is the experimental group and control group having similar ability or not before the implementation of timeline strategy. Pretest was administered to both classes to measure the students' English writing ability before the treatment. The pretest conducted on March 15 2016.

2. Posttest

After timeline strategy implemented, then the posttest was given. Posttest was given to know students ability result after the treatment. The result of the test was scored and calculated. It was conducted on March 28 2016.

H. Research Instrument

In quantitative research, instrument was applied to collect the data. The instrument of this research to measurable variable value that was accurate. In this research, test and observation used to collect the data. The test was the

⁴¹ Sugiyono, *Statistika untuk Penelitian*, (Bandung: Alfabeta Bandung, 2010) 137

main instrument to give the researcher data about the students' writing ability.

The test was in form of essay writing.

In grading and scoring the researcher used analytic scales with explicit and detailed scoring adapted from Self (n.d) to get the more validity and reliable grading of the test. (Appendix 1) the rubric is a set of characteristic that used to evaluate writing, with rubric researcher can access and give the score of writing.

There were five components assessed on writing ability in recount text: they are composing style, word formation, usage and mechanism.⁴² Each component of five aspects have maximal score and minimum score. The maximal score of all aspects are 4, and 1 for the minimum score. The score was based on the degree of control the students' paper exhibits for that component.

- 4 = consistent control
3 = reasonable control
2 = inconsistent control
1 = little or no control

2. Posttest

Afterward the posttest was conducted to measure the effect of timeline strategy used after the application treatment in experimental group. The use of posttest also determines whether was effective of not by comparing the achievement of post test in both classes, those are control and experimental group.

I. Data Analysis Technique

In this research, there was only one question with one data. The data of the question about the significant different of increasing writing achievement between who taught using guiding question technique and who was not taught without using guiding question technique. The data was collected from observation class activity and students' test.

After collecting the data of pre-test and pos-test from the experimental group and control group, the researcher tried to find out the difference between the achievement of the experimental group and the control group. Then, the data was analyzed using statistical calculation of t-test to find out whether the differences of the score between the experiment class and the control class are significant or not. T-test is used to measure and compare the differences of means score between experimental group and control group.⁴³

⁴³ A E.Bartz,*Basic Statistical Concepts in Education and the Behavior Sciances* (Minneapous:Burgess Pub,Co, 1976), p.293

