#### **CHAPTER III**

#### RESEARCH METHODOLGY

#### A. The Research Design

This research was experimental research. In this research the effect of using Think, Talk, Write (TTW) strategy as dependent variable and students' writing ability as independent variable. Researcher divided sample into two groups. They concern for experimental research. According to Sugiyono (2008:72), experimental research methods can be interpreted as the research methods used to find the effect of a particular treatment of canother in a run away condition.

Gay (1): 367-368), the experimental res (1) is the only type of research that (1) hypotheses to establish (1) a effect relationship. It represents the strong hain of (1) and about the link between variable. In an experimental strong eresearcher manipulates at least one independent variable, controls other relevant variables, and observes the

research is the most structured of all types of research. In an experimental study, the researche is in on the action from the very beginning. He or she selects the groups, decides what treatment will go to which group, controls extraneous variables, and measures the effect of the treatment at the end of the study.

The two groups were taught by different writing strategy but same teacher and same topic. The experimental group was taught by using TTW strategy and the control class was taught by conventional strategy.

The treatment was given to experimental class about six meetings. Every meeting the researcher was given different topics. At the end of treatment, the researcher was gave the students post-test. So, at the end of the research, the researcher was use the post-test to see how both of them, using Think, Talk, Write (TTW) strategy to improve students writing descriptive text. According Sugiyono (2008:76) this research describes like:

Table 2. The ble Research Design

Treatment dest

Experim X O<sub>2</sub>

Control O<sub>4</sub>

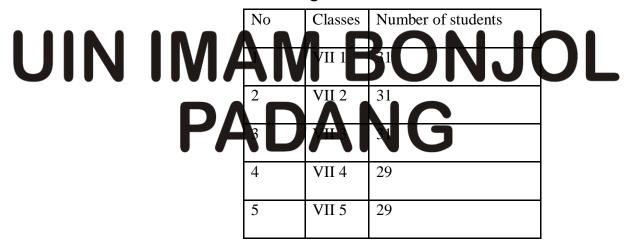
# O<sub>2</sub>= post-test for experimental class $O_4 = \text{post-test for control class}$

#### **B.** Population and Sample

#### 1. Population

Gay states population is the group of interest to the researcher, the group which she or he would like the result of the study to generalize whereas sample is a number of individuals for a study in such a way that the individual represent the larger group from which they are selected. This research was conducted at Islamic Junior High School 3 Solok Selatan. The population on this research is students of class VII Islamic Junior High School 3 Solok Selatan. There were two classes took from the regular classes as the sample, namely class VII.2 as the control class and class VII.3 as the experimental class. Researcher was took VII.2 and VII.3 as the experimental class. Researcher was took VII.2 and same ability in Energy proficiency. Distribution of this collaboration can be seen as follows:

Table 3. Distribution lents in 11 of Islamic Junior High School 3 Solok Selatan



Source: Curriculum staff of Islamic Junior High School 3 Solok Selatan

From the table above we can conclude that total of population are 151 students, consist of 5 classes, namely VII.1, VII.2, VII.3, VII.4, VII.5.

After deciding population, the researcher used SPSS to show normality and homogeneity from the both classes above. After the researcher did the normality test and got the normal data. Then the researcher did the homogeneous variation test. This test had an objective as to know the sample homogeny or not. The researcher did the test of homogeneity by using *Test of homogeneity of variance*. If the data were significant or the data were more than 0.05 it mean the data is homogeneous. Then to show the sample representative or not the researcher did the next step:

- a) Collected the dents' examination score data for the English teacher (see appendix
- b) Test of Normality, Normality, I test had a stive to know the population normal or not. The researche. Imogrov Smirnov and Shapiro Wilk to do normality test, it is SPSS (Statistical product and service solution)

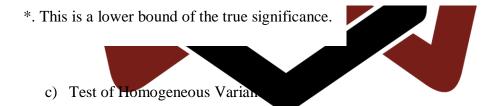
The data would be normally test. Revery class has significant or more than 0.05.

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**Table 4. Tests of Normality** 

	VAR0	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	0002	Statistic	df	Sig.	Statistic	df	Sig.
VAR0000	VII.1	.118	31	.200*	.946	31	.120
1	VII.2	.121	31	.200*	.945	31	.110
	VII.3	.133	31	.172	.958	31	.255
	VII.4	.139	29	.161	.952	29	.204
	VII.5	.159	29	.059	.941	29	.104

a. Lilliefors Significance Correction



After doing the normality test and got the normal data. Then the

## as to know the sample homogeny or not. The researcher did the test of

homogeneity Das as Text of tomoveneit of ariance. If the data were significant or the data were more than 0.05 it mean the data was homogeneous.

Table 5. Test of Homogeneity of Variance

		Levene			
		Statistic	df1	df2	Sig.
VAR0000	Based on Mean	.881	4	146	.477
1	Based on Median	.780	4	146	.540
	Based on Median and	.780	4	131.544	.540
	with adjusted df				
	Based on trimmed mean	.876	4	146	.480

#### 2. Sample

According to a (2000:121) sampler process of reflecting a number of individual a student way that the individual represent the large group where selected. He also states that a good

sample is the one that representative of the population from which is sample.

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In order to get sample, the researcher was used cluster random sampling. Gay (2000:124) stated that cluster random sampling involves the following steps:

- a) Identify and define the population
- b) Determine the desired sample size.
- c) Identify and define a logical cluster (neighborhood, school, city block, etc.)
- d) List all clusters (or obtain a list) that make up the population of clusters.
- e Estimate the average number of population members per cluster.
- f) Determine number of cluster needed by diverge the sample size by the esting size of a cluster.
- g) Randomly meeded number as (using the table of random number).
- h) Include in your study all population members in each selected cluster.

# In determining tout in and experimental class, the researche used cluster sampling. So class VII.2 select to be control class and class VII.3 select to be experimental class.

#### C. Instrument

Based on Arikunto (1997:136), research instrument is the tool or facilities used by writer in collecting data: it is used to get the accurate, complete and systematic research result. In this research, the instrument that writer used is written test which is used to collect the data about the effect

of Thin, Talk, Write (TTW) strategy to improve students' writing skill in descriptive text at Islamic Junior High School 3 Solok Selatan. The written test was given in Pre-test. In this case, the researcher ask to choose one of the topics given and create the story in the written form during 2X40 minutes. The topics is: My Best Friend, My School, My Favorite Place, My Lovely Home, and My Idol. Instrument Sample for writing skill score.

**Table 6. Sample of instrument in Giving Score** 

	Conten	)rga <mark>nizati</mark> on	Voc	Gramma	1echanics	Total
	(16-30)	20)	(9-20)	Clar	(1-5)	(100)
1						
2						
1						
111	10	ΛΛ	A			
31		/IAI	VI I	DU		

#### D. Procedure of Doing Research

There are some steps to conduct the research such as preparation, application, and finishing.

#### 1. Preparation.

The researcher collected the data that relate with preparation steps:

- a. Preparing lesson plan
- b. Preparing reseach intrument
- c. Determining population and sample

#### 2. Application steps.

This step was conducted in three teaching activities. The first activities are teaching activity which include greeting, checking attendance, a control and motivation. The last activities are post activities included concate are activities and evaluation. The scenario of learning for experimental class and control class can be seen as follows.

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**Table 7. Treatment Procedure for Experimental and Control Groups** 

Experimental Group	Control Group
• Greeting	Greeting
<ul> <li>Praying</li> </ul>	• Praying
Checking students attendance	Checking students
list	attendance list
• The teacher asks the students	• The teacher asks the
the topic of the past lesson.	students the topic of the past lesson
Observing	Observing
Teacher ins the material about do tive text (The purpose of generic	Studen serve images on screen near examples of
structure of the text	teachers with social
use of the text).	functions, text structure.
Teacher checks students?  Understanding about the tex	Bispects of thit des and
(purpose, language feature, and	A sincer active students.
generic structure.	AIVG
Questioning	Questioning
<ul> <li>Teacher gives worksheets or the</li> </ul>	By questioning the director
teacher divides the reading text	of the teacher, learners
that contains the problem	

situation (descriptive text) and the instructions and procedures for implementation to each student.

• Students read the worksheet, understand the problems individually and make small notes (think).

questioned about social functions, text structure

#### **Exploring**

Ask the students to interact with their group to discuss contents of worksheet. The students are asked to identify text environment (talk). Text as mediators of learning

#### **Exploring**

Students write the text in collaboration (draft).Street wise the draft

#### Associating

Students construct their

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- Students write simple descriptive text individually.
- Teachers assess aspects of

#### **Communicating**

Students perform a descriptive

text in oral in front of the class to attain a social function, the structure of the text, and linguistic elements appropriate to the context.

student's attitude and sincerity / activeness

#### **Communicating**

- Teacher gives feedback
- Students conclude learning materials that have been studied.
- Students reflect mastery of the material has been studied to create e mastery of the material.
- Teacher closed the

- Students conclude learningmaterials that have beenstudied.
- Students reflect mastery of the material that has been studied the create a note the material.
  - eacher closed the class

#### 3. Finishing Steps

## UN Collective defautables writing ONJOL

- b. Processing data towards experiment and control class by using T-test formula
- c. Getting finding.

#### E. Technique of Data Collection

For this research, the researcher used writing test to collect the data. The test is given in post-test. Post-test is the process of identifying

the students' writing skill after giving the treatment. Treatment is the process of Think Talk Write as strategy a in teaching and learning process to improve the student's writing skill.

In analyzing and assessing the students' writing ability, the analytic scale is used as described in table below:

SCORE	LEVEL	CRITERIA
	30-27	EXCELLENT TO VERY GOOD:
		knowledgeable a substantive • thorough
		development of thesis relevant to assigned
		topic
	-22	GOOD TO AVERAC
		subject adequate amited development
		thesis relevant to topic but lack
CONTENT		
CONTENT		de
	21-17	FAIR TO POOR: limited knowledge of
JIN II	VIA	subject • Hide substance • inadequate
		development of topic
	PA	DANG
	16-13	VERY POOR: does not show knowledge of
		subject • non substantive • not pertinent • or
		not enough to evaluate
ORGANIZATION	20-18	EXCELLENT TO VERY GOOD: fluent

		expression • ideas clearly stated/supported •
		succinct • well organized • logical sequencing
		• cohesive
	17-14	GOOD TO AVERAGE: somewhat choppy •
		loosely organized but main ideas stand out •
		limited support • logical but incomplete
		sequencing
	13-10	FAIR TO POOR: non-fluent • ideas confused
		or disconnected • lacks logical sequencing and
		development
	0-7	VERY POOR: does not ommunicative • no
		organization • or not en evaluate
		EXCELLENT VERY GOOD:
	20-18	phistice ge effective word/idiom
		ch and usage • word form mastery •
		appropriate register
JIN II	<b>14</b>	GOOD TO AVERAGE: adequate range
VOCABULARY		occasional errors of word/idiom form, choice,
	PA	usage but meaning not obscured
	13-10	FAIR TO POOR: limited range • frequently
		errors of word/idiom form, choice, usage •
		meaning confused or obscured
	9-7	VERY POOR: essentially translation • little

			knowledge of English vocabulary, idioms,
			word form • or not enough to evaluate
		25-22	EXCELLENT TO VERY GOOD: effective
			complex constructions • few errors of
			agreement, tense, number, word
			order/function, articles, pronouns, prepositions
		21-18	GOOD TO AVERAGE: effective but simple
			constructions • minor problems in complex
			constructions • several errors of agreement,
			tense, number, word order, function, articles,
			pronouns, prepositions to t meaning seldom
	LANGUAGE		obscured
	USE		FAIR TO POOR problems in simple
			etions • frequent errors of
			neg agreement, tense, number, word
			order/function, articles, pronouns, prepositions
	IIN II	ИΔ	and of fragment, run-ors, deletions one aning
			confused or obscured
		PA	VERY DOOR virtually no mastery of
	'	10-5	sentence construction rules • dominated by
			errors • does not communicate • or not enough
			to evaluate
	MECHANICS	5	EXCELLENT TO VERY GOOD:
		l	

	demonstrates mastery of conventions • few
	errors of spelling, punctuation, capitalization,
	paragraphing
4	GOOD TO AVERAGE: occasional errors of
	spelling, punctuation, capitalization,
	paragraphing but meaning not obscured
3	FAIR TO POOR: frequent errors of spelling,
	punctuation, capitalization, paragraphing •
	poor handwriting • meaning confused or
	obscured
	VERY POOR: no mast of conventions •
	dominated by errors ( elling, punctuation,
	capitalization, page and handwriting
	egible ough to Evaluate
TOTAL SCORE:	

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To analyze the students some on posites, the researcher was used t-test that take from Gay (1987) and Statistical Software Program SPSS version 20. In this case, T-test means a statistical procedure use to determine whether there are many significant differences between the mean of the two sets score from control and experiment class.

In analyzing the students' test score, some steps were did before analyzing the different mean by using t-test formula as follows;

 This formula applied to decide mean of students' test score in experimental and control groups;

$$\overline{X_1} = \frac{\sum F_1 X_1}{\sum F_1}$$
 (Experimental group)

$$\overline{X}_2 = \frac{\sum F_2 X_2}{\sum F_2}$$
 (Control group)

2. This formula was used to decide standard deviation of experimental group;

$$S_1^2 = \frac{n_1 \times \sum_i F_i x_i^2 (\sum_i F_i X_i)^2}{(n_1 - 1)}$$

3. This formula was used to decide standard deviations control group;

$$S_2^1 = \frac{n_2 \times \sum_{i=2}^{k_2} (n_2)^2}{n_2 (n_2)}$$

The formula of t-test as follows Judjana, 1996).

# UIN= MAMBONJOL With: PADANG (n-1)S<sup>2</sup> + (n-2)S<sup>2</sup>

$$S^{2} = \frac{(n_{1} - 1)S_{1}^{2} + (n_{2} - 2)S_{2}^{2}}{n_{1} + n_{2} - 2}$$

Notes;

t : The value of t calculated / observer / obtained

 $\overline{X_1}$ : Mean score of experiment sample

 $\overline{X_2}$ : Mean score of control sample

n<sub>1</sub>: The number of subject of experimental class

n<sub>2</sub>: The number of subject of control class

 $S_1^2$ : Standard deviation of experimental class

 $S_2^2$ : Standard deviation of control class

The t-table was employed to see whether there was a significant difference between the mean score of both experimental class and control class. The value of t-obtained was consulted with the value of t-table at the deg of freedom  $(n_1-1)+(n_2-1)$  and the el of confidence of 95%=0. The value of t-obtained was the value t-table, the null hypothesis was ted; on the sy, if the value of t-obtained is equal or bigger than value are alternative one is not accepted.

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