

1. Planning

Researchers plan actions that focus on several things such as what to do, who does it, how the action should be done, why to take the action and where to take the action.

2. Action

At the action step, the researcher will explain the process of teaching vocabulary.

3. Observation

Observation is the researcher process of observing the learning process and also collecting data related to the results of these actions. Then the researcher and the English teacher in tenth grade students of natural science 1 will discuss the results of observations such as what problems the tenth grade students of natural science 1 when learning vocabulary and also find solutions to solve these problems. To solve problems in students, the researchel will note to be problems in the learning process.

4. Reflection

Reflection is to analyze the data that has been collected and if the action fails, the next cycle of action. If the research said to be successful if 75% of students follow the learning process well and also give good responses to the teacher. In addition, students improve vocabulary scores such as working on multiple choice and sentence contruction. The criteria of succes determines by researcher if the 75% students get score 70. If less than 75% of students can reach grades 70, it mean that the researcher must to do next cycle.

C. The subject of the study

The subject of this research is the students of the tenth grade natural science 1 of the SMAN 4 Metro in the academic year 2020/2021. It is located on Jl. Raya Stadion No. 24, Tejosari, East Metro District. Metro City, Lampung 34124.

D. Instrument of the Research

The researcher as an observer to collect data and also the person who carries out the action to research the class and also the English teacher in tenth grade natural science 1 who will be a collaborator as an observer. In this study, the researcher used instruments namely interview guidelines, observation check list and test.

1. Interview Guidelines

Interviews are used to support observations during the learning process and as a reflection of the learning process of vocabulary mastery using the frontloading strategy in the google classroom application.

Table 3.1 these questions guided the researcher to interview the English teacher as the interview guidelines

No	Questions	Answer
1	What is your opinion about vocabulary lesson using frontloading strategy in the google classroom application?	
2	What is the condition of students' during learning vocabulary by using frontloading strategy in the google classroom application?	
3	How is the students' vocabulary mastery after applying use frontloading strategy?	
4	How is the teaching and learning activity in learning vocabulary by using frontloading strategy in the google classroom application?	
5	How does students' participation when learning vocabulary by using frontloading strtegy in the google classroom application?	

2. Observation Check List

When observation, the researcher makes a list of names of students in tenth grade natural science 1. The researcher observes students while participating in learning activities such as responding to the teacher, answer question, doing assignment and fill the attendance class in the google classroom application.

Table 3.2 observation sheet of students' activity

No	Activity of Students'	Frequency	Percentage
1	Responding to the teacher		
2	Answer question		
3	Doing assignment		
4	Fiil the attendance class in the google classroom application		

3. Test

The researcher uses multiple choice test related to vocabulary that will be given about 90 minutes. The tests consist of sentence contruction and multiple choice through google classroom application. For the question grid is for sentence contruction made like KWL format and for multiple choice such as gaps sentence, part of speech, guess the picture, present perfect tense, preposition, congratulations and relative clause.

E. Data Collecting Tehnique

In this research, the researcher using qualitative data and quatitative data. The qualitative data consists of interview for teacher and observation. On the other side, the quantitative data uses test such as pre-test and post-test.

1. Interview

The researcher interviews the English teacher after conducting the action research. The data is to determine the improvement of vocabulary in tenth grade natural science 1 by teaching students to use the frontloading strategy and the google classroom application as a media.

2. Observation

Observation is used to observe learning activities such as responding to the teacher, answer question, doing assignment and fill the attendance class in the google classroom application. Beside knowing how the teacher teaches especially vocabulary.

3. Test

For data collection in the form of a test consisting of a pre-test and post-test. The pre-test is conducted before taking the action while the post-test is conducted after taking the action. Researcher will use tests to require students activity to be use as an assessment.

a. Pre-test

Pre-test is important in this research. The aim is to know the students basic knowledge. the test will be given about 90 minutes. The tests consist of sentence contruction and multiple choice through google classroom application. For the question grid is for sentence contruction made like KWL format and for multiple choice such as gaps sentence, part of speech, guess the picture, present perfect tense, preposition, congratulations and relative clause.

b. Post-test

Post-test is conducted after taking the action in each cycle by using frontloading strategy in the google classroom application. In the post-test same question and also same question grid with the pre-test.

F. Tehnique of Data Analysis

After collecting data, the analysis qualitative data will use interview, observation of the learning process and the researchers will use descriptive analysis in collecting data, to explain each cycle in the indicator helps the learning process to improve vocabulary mastery in students by using frontloading strategy in the google classroom application.

The data from observation are grouped based on students behavior and students responses that can be used as instructions or indicators of students activity during learning activities. The researcher said to be successful if 75% of students follow the learning process well also give good responses to the teacher. Moreover, students improve vocabulary scores such as working on multiple choice and sentence contruction. The results of observation is analyzed as below:

$$\frac{\text{The total number of activity}}{\text{Number of students}} \times 100$$

(Gay, 2012)

In analyzing quantitative data, the researcher tries to accounting a test for pre-test and post-test will use formula as below:

1. For scoring the students correct answer of pre-test and post-test by using the formula:

$$\text{Score} = \frac{\text{the total correct answer}}{\text{Total score of item in test}} \times 100$$

(Depdiknas,2018)

2. The collection data from the students in answering the test, the researcher use formula to get the mean score of the students as follow:

$$X = \frac{\sum X}{N}$$

Where:

X = Mean score

$\sum X$ = The sum of all score

N = Number sample

(Gay, 2012)

3. The researcher tries to get the class percentage which pass the KKM 70. Computing the frequency and the percentage of students score of the students as follow:

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

Where:

P = Percentage

F = Number of correct answer

N = The total number of subject

(Gay, 2012)

4. Classification score evaluation.

Table 3.3 classification of the students' achievement

No	Classification	Score
1	Excellent	96-100
2	Very good	86-95
3	Good	76-85
4	Fairly good	66-75
5	Fair	56-65
6	Poor	46-55
7	Very poor	0-45

(Depdikbud, 2006)

The researcher gets score from one cycle conducted in the research. It is to know how far the progress of the students in teaching and learning process. The researcher also used formula to find the final score based on the criteria value 70 of target score.