

CHAPTER III

METHODOLOGY

This chapter presents the research methodology used in this research. The discussion of research method is important to ensure the quality of the research, the validity in research outcomes, and providing a strong and justifiable basis in which to make claims. This research is going to explain the correlation between of the activities in English textbooks and students' achievement of English. In this section the researcher will outline the research methods that used compilation of this report.

Research Design

This research explained about the correlation between English textbooks activities used by students and students' English achievement Grade X at Madrasah Aliyah Muallimin Yogyakarta. This research used quantitative research. Creswell (2008) argues that the quantitative research conducts the inquiry in unbiased manner. In this method, the researcher focuses on the research questions that require the researcher to collect quantifiable data by asking specific questions, to describe about their opinions about their opinion on textbooks in Madrasah Aliyah Muallimin Yogyakarta. In the design the researcher simultaneously collect data at one point in time (Creswell, 2008).

Population and Sample

The population in this research was students of Madrasah Aliyah Muallimin Yogyakarta. This research, the participants was students of grade X year 2014 which were divided into four classes, class XA, XB, XC, and XD wick

consist of 34 students each class total of students are 136. The researcher used one class as participants in this research, because by using quantitative method sample, 30 respondents are sufficient to measure the validity of a research product (Sekaran, 2012). The researcher purposely used students of class XD based on teaching practice which it undertaken at this level and also based upon the recommendations from English teacher of Grade X Madrasah Aliyah Muallimin Yogyakarta because all of students of class XD always using textbooks during English class.

Data Collection Method

The process of data collection commenced once written permission has been received from Madrasah Aliyah Muallimin Yogyakarta to conduct the research in the school. The permission letter will be attached in the appendix. To conduct this research, the researcher made a survey or observation first before giving a questionnaire for the students in the class, currently studying English. A survey undertaken by the researcher has the goal of understanding if students in their process of studying English in class are able to absorb the information as presented in the text book and engage actively while using the prescribed book. The researcher also endeavors to know whether the textbook had an influence upon the academic achievement of students following its use.

As mentioned above, the samples consist of 34 students of Madrasah Aliyah Muallimin Yogyakarta grades of X. This research, the researcher used class XD as the sample. The researcher used convenience sampling in which the

researcher selected participants because they are willing and available to be studied (Creswell, 2012).

Variable of the research

The variable of the research consist of two variables; the dependent variable (Y) and independent variables (X). As for the study variables are:

Dependent Variable(Y)

A dependent variable is an attribute or characteristic that is dependent or influenced by the independent variable (Cresswell, 2012). In this research, Students' English achievement is the dependent variable and use English final score of students' in English learning Grade X on second semester year 2014/2015.

Independent Variable: English Textbooks Activities used of Students (X)

The independent Variable of this research is English textbook activities used by students. Creswell (2012) argued independent variable is a characteristic that affects an outcome or dependent variable.

Instrument of the Research

The researcher collects quantitative data on instrument. An instrument is a tool used in measuring, observing, and documenting quantitative data (Creswell, 2012). Meanwhile, the data validity about student achievement in English is based upon the final semester results of academic year 2014/2015.

Questionnaire

The questionnaire is used to collected data on this research. The questionnaire consists of questions to identify the qualification of students' opinion

about English textbook in general at Madrasah Aliyah Muallimin Yogyakarta Grade X second semester year 2014/2015. Its means that questionnaire measures all the textbooks activities. The research questionnaire is written in *Bahasa Indonesia* to assist students in understanding the content.

Meanwhile, the questionnaire from this research is close-ended questionnaire which consists of five alternative answers. To facilitate data interpretation, values 1,2,3,4, and 5 were assigned to every choice respectively to strongly disagree, neutral, disagree, agree and strongly agree.

The questionnaire consists of 10 questions and four demographic questions. The demographic questions consists of name, number of respondent, age, and major of the study. Questions regarding demographic are used by researcher to acquire information from participants. Before participants provide answers to the questions, the researcher firstly provides an introduction and instruction. So, the participants are understand how to answer the question which has been given by the researcher.

The questionnaire in this research based upon the theory of Genre Based Approach (GBA), in accordance with the 4 steps of the GBA which are BKOF, MOT, JCOT and ICOT. In the research questionnaire which consist of 10 questionnaires which are related to the 4 steps of the GBA.

Questionnaire number 1, 5, and 9 uses BKOF concept and consist of 3 questions. Questionnaire 4, 7, and 10 use JOT, and questionnaire 3 and 8 uses statements based on ICOT, whereas questionnaire number 2 and 6 uses MOT.

There are total of 10 questioners will be use in this research. The questionnaire is tabled in the appendix.

Data Analysis Method

The technical data analysis that used in this research is quantitative descriptive statistics that present the data in the form of frequencies of each variable. Trochim (2006) states that together with simple analysis, they form the basis of virtually every quantitative analysis of data. Moreover to understand the Learning achievement based on textbooks and the students' achievement, the researcher using the intervals of good, sufficient, and poor.

In analyzing the data gathered, researcher used Likert Scale to collect data about students' opinion about textbooks. In this research, the researcher used questionnaire as methode of collect the data. To measure the reliability of the questionnaire, the researcher used Statistical Package for Social Science (SPSS) version 22.

Validity of the Instrument

The researcher used construct validity to test the validation of instrument through score of each item correlated with total score of item. The researcher obtain the data from questionnaire. The data obtained were process to find r value. Then the researcher compare the r value of the data with the r table to find which the question items were valid. The items are valid if the r value is higher than r table.