CHAPTER III

METHODOLOGY

This research is an attempt to seek answers to a number of phenomenon or aspects relating to where teachers asked questions and how students responded to them. The research into teachers' questions and students' responses in the EFL classroom includes details of the research design, research validity, the participants, the research setting, techniques of gathering data, and technique of analyzing data respectively.

3.1. Research Design

This research applied a qualitative research design. The reason for using qualitative design is that this design is an appropriate way to explore daily behavior, in this case the behavior of teacher and students in classroom. In qualitative research, the researcher tries to understand participants' experiences with the central focus of the study in natural setting that refers to the ordinary, everyday worlds of participants (Heigham and Croker, 2009).

There are several methods in qualitative research such as ethnography, phenomenology, grounded theory and case study (Alwasilah, 2008). This research ended when the researcher found the saturated data in the data collecting process (Sugiyono, 2009). The transferability of its findings would be limited to the context of the present study.

This research used descriptive case study style because the researcher presents a detailed, contextualized picture of a particular case or phenomenon to

gain a deeper understanding of a case or phenomenon with procedural descriptive

data viewed as part of a whole (Hood, 2009; Bogdan and Taylor, 1975). This

statement similar to that of Creswell who stated that:

Case study in which the researcher explores a single entity or

phenomenon ("the case") bounded by time and activity a program, event, process, institution, or social group and collects detailed information by

using a variety of data collection procedures during a sustained period of

time (1994, 12).

The research about teachers' questions and students' responses in the

EFL classroom was a case study because the researcher presented a description on

teacher questioning that is used during the process of teaching and learning

English in classroom setting. For this purpose the researcher applied a case study

which is part of descriptive method to find information from a research object that

is bounded by time.

3.2 Establishment of Trustworthiness

The researcher used some techniques suggested by Rallis and Rossman

(2009) included: 'prolonged engagement, triangulation, and participant validation'

to ensure validity in this research. Prolonged engagement or 'being there' was

used because of the accessibility of the researcher to the research field. The

researcher was present and spent time with the participants over a five year period

in the setting so that the researcher was able to make a detailed research of the

target phenomenon.

Triangulation was used for constructing validity (Alwasilah, 2000) and

to get data validity from variety data collection (multiple sources of data). This

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study used interviews, observations and video recording. The triangulation

carried out based on interviews with teachers and students and also classroom

observation to catch all questioning- answering activities. This study was

validated by presenting detailed descriptions on the process and the setting based

on the field notes during the observation.

This study also took another step to ensure validity of procedure in the

form of participant validation. Participant validation was conducted as member

checking. The researcher made the participant check in transcribing and

interpreting the video recorded data. The participants were asked to make sure that

the transcription was valid based on the recorded data and whether they identified

questions in the transcription as questions or not so that the researcher and the

participants had the same perception in determining the utterances as questions or

not.

This study used these techniques to enable the researcher to maintain the

quality of data gathering and subsequent analysis. The researcher used these

techniques according to situation and condition in field research so that the

researcher could explore daily behavior and students in classroom, and understand

participants' experiences with the central focus of the study in natural setting.

3.3. Research Setting and Participants

This study was conducted in a Public Senior High School located in

Bandung. The reason for choosing this school was the accessibility of the

researcher into this school. There were two groups as the focus of observation.

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The first group was XI Natural Science which consisted of nine classes. The

second group was XI Social Science which consisted of two classes. These two

groups (Social and Natural Science) were at the first semester of academic year

2011/2012 and the teaching-learning was conducted in morning shift from 6.30

am to 01.30 pm. The students received English lessons twice a week.

This research involved two English teachers, both female, to get the data

of teacher questioning. The fact that these two participants were the colleagues of

the researcher enabled the researcher to maintain and utilize this close

relationship. Both participants are certified teachers. Those two teachers were

coded as teacher A and teacher B. They had been teaching English for more than

ten years and had broad experience in teaching English.

Teacher A has been teaching in the research field for about more than 15

years. She graduated from a local university majoring in English after attaining a

Diploma degree (D3) in the same university and passed the teacher certification in

2009 with a good grade. During the research process she was class teacher for

class XI Natural Science 6. She applied teaching and learning method based on

her experiences and combined it well with the latest curriculum.

Teacher B got a Diploma (D2) in 1982 from a local university that led

on to her becoming a Junior High School teacher. She has S1 degree from two

local state universities majoring in Communication in 1991 and English Education

in 2000 and she has a Management Magister degree from a private university in

Bandung. She has been teaching English in research location since 2009. During

the research process she was class teacher for class XII Natural Science 7. She

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passed the teacher certification in 2008 with a good grade because of her teaching

achievement in another Senior High School. With her strong education

background, she has been able to apply a variety of techniques to the teaching and

learning process.

Meanwhile, students who participated in this research were involved 90

students divided into two groups of students. The first group was Class XI Natural

Science which consisted of nine classrooms. The students were selected into this

classes based on their existing group. They were selected based on their rank

when they were in the last semester of the first year. They showed the best

achievement in most subjects because the input came from the highest ranked

students in the school. In this regard they had been classified as gifted students as

they were from the high achiever group of students.

The second group was class XI Social Science which consisted of two

classrooms. Some of them had other activities outside school and were busy in

doing activities in sports, art, etc. so that they were sometimes absent from the

class to take part in matches or competitions etc. This situation made them lower

achievers by comparison to the other class.

The data also collected when the students were in the second year of

Senior High School in the academic 2011-2012. These two class groups showed

some interesting characteristics especially during observation to collect the data

about teachers' questions and students' responses to the teacher questions.

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3.4 Data Collecting Techniques

This study used multiple procedures to collect data including; observation, interviews and video recording to gather data on problems or issues and to answer research questions. The researcher used observation for several reasons, they were that; teachers and students follow familiar routines and activities in school, observation was used to triangulate or provide additional evidence for the research study and because the practice of language teaching, teachers and researcher always requires making sense of a complex situation (Cowie, 2009:168). This research used in-depth interview to reveal some information to answer research questions.

3.4.1 Observation

Observation was used as a major technique among data collecting techniques. This study used observation to make detailed examination of what types of questions were applied by the teachers, and what were the responses that have been given by the students to the teachers' question, and observed what were the questioning strategies that have been applied by the teachers when their questions were not understood by the students in the natural setting of the ordinary, daily activities at school. This study used observation to make detailed examination of participants' behavior in the natural setting of the ordinary, everyday world of participants (Heigham and Croker, 2009: 166).

The researcher used himself as the research instrument to capture the data that were used to answer the research questions. To investigate teachers' questions and students' responses and some specific details, the researcher

watched and made detailed notes details from the back during EFL classroom

activities.

In this research, the researcher observed the participants in their

classroom. The researcher played the role of non-participant observer because the

researcher was in the classroom to collect data only and not to take part in any

classroom activities. The observation were collected from the natural classroom

situation as possible, and watched from the back of the classroom so as not to

interfere in any classroom activities. The field notes were made by the

investigation on the questions that were used by the teacher, the responses from

the students to the teachers' questions and some details that were useful to answer

research questions.

The researcher engaged himself in detailed description about the

language learning activities occurring in the classroom. Detailed description refers

to the rich, vivid descriptions and interpretations that researchers create as they

collect data or the writing about a research setting needs to be as detailed and rich

as possible so that readers can feel like they are there with the researcher (Geertz

cited in Heigham and Croker, 2009).

The observations focused on the research questions as the observation

guidelines which were to find out the type of questions that were used by the

teachers in EFL classroom activities, the responses that were presented by the

students to the teachers' questions and the questioning strategies that were applied

by the teachers where their questions were not understood by the students. This

method was employed to avoid misperception and or misunderstanding from the

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teachers who were being investigated by their colleague. According to Heigham

and Croker (2009: 169) being observed can stir up visceral responses in many

teachers especially where being observed by a colleague.

This study conducted 24 observations, 12 observations were made on

each group (Natural Science and Social Science classes). During the observation,

all participants taught different topics. In class XI Natural Science class, the

teacher taught Genre Narrative at first, while in class XI Social class the teacher

taught Genre Analytical Exposition. Before observing each class, the teacher

introduced the researcher to the students and then the observer took place in the

back of the class. During the observations, the researcher made field notes of all

the classroom activities and used the researcher himself as the research

instruments to make description from the research activity during the classroom

activities.

3.4.2 Interview

This research used interviews only to gain specific information about

teachers' understanding of what types of questions that were used in their

classrooms. Interviews were used to support the data gained from observation and

video-recording techniques. Interview was used through verbal interaction

between interviewer and respondent directly (Sevilla, 1992). Similar to Nasution

(1982) that interview is classified as verbal communication to collect information.

This research used opened and closed interviews. The interview was

developed naturally where the subjects know and realize about being interviewed,

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while closed interview has been done when researcher asked some questions and

the subject did not know or realize about the interview (Moleong, 2004; Heigham

and Croker, 2009).

The opened interview was used in the classroom or teachers' room after

observation or video-recording techniques to discuss about the situation in the

classroom. The researcher asked some questions to the participants to support the

data from observation and video-recording about the information that could not be

revealed from those techniques. The participants knew and realized being

interviewed so that this process can be classified as the open interview technique.

The closed interview technique was used to collect the data from

students about the reason of their responses to the teachers' questions. The closed

interview is used when the students were asked in informal situation, and they did

not realize that they were being interviewed by the researcher because the

researcher asked the questions several days after observation and video-recording

techniques. The interviewed was done in the middle of daily conversation.

3.4.3 Video Recording

The data collection most were taken from observation in natural

classroom situation as possible where the researcher watched from the back of the

classroom and made the field notes about the questions that were used by the

teacher, the responses from the students to the teachers' questions and some

details that were useful to answer research questions.

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To support the data collection, this study conducted the video recording

to catch all the teaching and learning process in the classroom so that the

researcher can collect the data from the specific activities. Video recording was

also used to interpret some objectives features that the researcher was not being

influence of the classroom activities circumstance.

The researcher sat and watched in the back of the class while the data

from video recording were taken by one of the students. Video recording was not

used in entire research process. The study conducted four (4) video recording

techniques because of the limited source of systems during research collecting

data. Video recording was used only when the participants applied questioning in

the classroom. Video recording was off when the participants involved in writing

and drama or role play activities. Along the collecting data the researcher

concerns with the relationship among colleagues. The researcher always tries to

keep good relationship because sometimes being observed can stir up visceral

responses in many teachers, especially observed by a colleague (Cowie, 2009).

3.5 Data Analyzing Techniques

This research collected the data from video-recorded, observation,

and interview techniques. The data from video-recorded and observation were

categorized and analyzed, while the information from interview was used to

support the data from video-recording and observation techniques. There were

some steps in analyzing data from field notes and video recording.

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From field notes observations, the researcher made description of each

observation based on the observation guidelines during the observation. The result

of the description will be used to provide more detail context when classifying

types of questions and interpreting the meaning of certain utterances.

First, the researcher counted the frequency of teacher questions that were

applied by the teachers in their classrooms based on the framework of Brown

categories. The categories are Knowledge question, (2001) questions

Comprehension questions, Application questions, Inference questions, Analysis

questions, Synthesis questions, and Evaluating questions. The next step was

arranging the hierarchy of teachers' questions based on the frequency of

questions, into the table of teachers' questions frequency to find out which

questions mostly used by the teachers in their classrooms.

After arranging the hierarchy of questions, the next step was analyzed

the response from the students. The students' responses can be categorized verbal

communication as spoken communication, including the use of words and

intonation to convey meaning, while the nonverbal communication including the

use of gesture, facial expression, eye contact, and conversational distance.

The last step was categorizing the questioning strategies that were used

by the teachers when their questions were not understood by the students. The

researcher analyzed the field notes to find out which teacher questions could elicit

student responses and which ones should be applied the questioning strategies

such as rephrasing, simplification, repetition, and decomposition.

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From video-recording data, the researcher made transcription and gave

several codes to indicate specific features of the transcription. The researcher

applied codes T for teacher, S for one student, Ss for many students, "*" For

pausing, "..." for no response, and for non- verbal responses.

The researcher made classification of the utterances into two categories,

teacher questions category and student responses category. After all the utterances

have been categorized, then the researcher classified all the teacher questions

based the taxonomy of question which adapted from the framework of Brown

(2001). The researcher analyzed the transcription to find out which teacher

questions could elicit student responses and which ones could get inappropriate

responses.

The next step was categorizing the questioning strategies from the

transcriptions of video-recording. The transcription were coded which questioning

strategies that were used by the teachers when their questions were not understood

by the students. The researcher analyzed the transcriptions to find out which

teacher questions could elicit student responses and which ones should be applied

the questioning strategies such as rephrasing, simplification, repetition, and

decomposition.

The next step was analyzed the response from the students. The

students' responses can be categorized as communication feedback. The feedback

from the students can be verbal and nonverbal communication (Suherdi, 2009,

Brown, 1994, and Levine, 1993). In teaching and learning process in the

classroom, students give variety responses by answer questions verbally or just

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silent but they give responses by using their body language such as nodding or

shaking their head, facial expression, eye contact, and conversational distance.

Some students' responses can be expressed by laughter or use the native language

(Brown, 1994).

The last step was the researcher made the participant check in

transcribing and interpreting the video recorded data. The participants were asked

to make sure that the transcription was valid based on the recorded data and

whether they identified questions in the transcription as questions or not so that

the researcher and the participants had the same perception in determining the

utterances as questions or not.

This research methodology can be figured out from the research

framework that was starting from determining the research background, formulate

the problem into research questions which were showed up because of the lack of

theories and realities, determining the collecting and analyzing data techniques,

presenting the research findings and elaborating with the theories.

This research was design to explore daily behavior of teacher and

students in classroom and presented in details bounded by time. This study was

validated by presenting detailed descriptions on the process and the setting based

on the field notes during the observation, and also took another step to ensure

validity of procedure in the form of participant validation to enable the researcher

to maintain the quality of data gathering and subsequent analysis according to

situation and condition in field research.

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