

## CHAPTER III

### RESEARCH METHOD

This chapter discusses several things such as research design and step of applied Research (Developing Research). Those things were very important for researcher in conducting the study and obtaining the empirical the results of the study.

#### 3.1 Research Design

The design of this study is Research and Development (R&D) Study. It is because the study is designed to develop the reading test which can be applied in real education. The end of the study, the product will be in form of computerized reading test and the content of test consist of multiple choice and short answer to increase the students ability in reading.

For developing test, the researcher must pass some steps. There a lot of instructional development models. One of them used ADDIE Model adapted from Steven J McGriff.

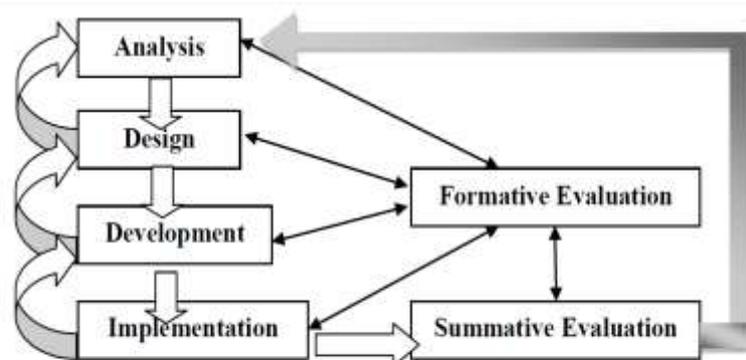
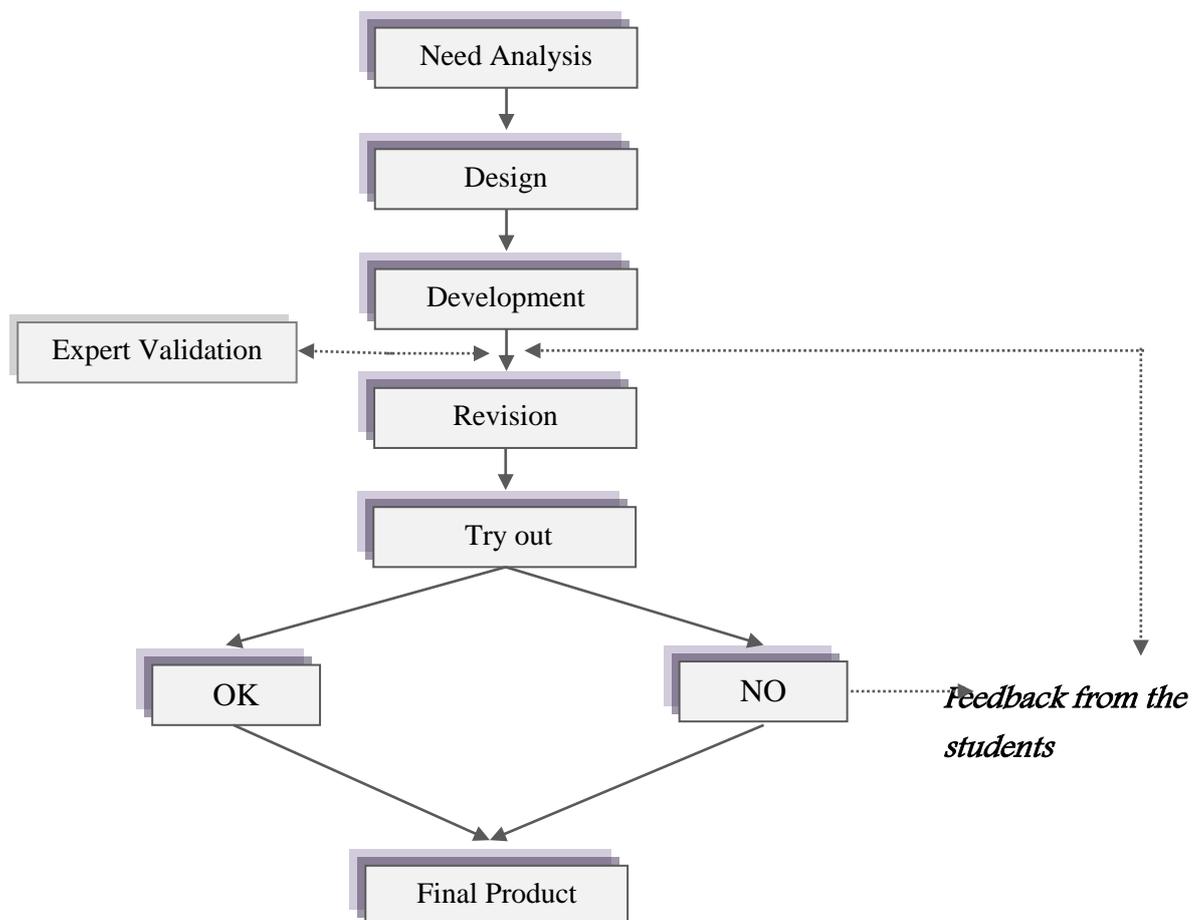


Figure 3.1 Steven J. McGriff's ADDIE Model  
[http://www.e-learningguru.com/articles/art2\\_1.htm](http://www.e-learningguru.com/articles/art2_1.htm)

From the flow steps of Steven J. McGriff's ADDIE model, the researcher needed to validate the product to the expert to make sure that final product was ready to be applied or not. So the researcher used the appropriate one that was modified by Candra Hadi Asmara. This was modified ADDIE Model.



This model of research will be used in this development study; it will be explained in the procedure of developing reading test for student in first grade at SMP Manbaul Ulum .

## **3.2 Instrument of Data Collection**

The researcher uses some instrument in collecting the data. First, interview will be done with English teacher of first grade in SMP Manbaul Ulum and give questionnaire to the students. Second, checklist has been given to the expert. The last, questionnaire will be given to the students before and after they get the test so we can measure the understanding level of students reading ability and their opinion about the test.

## **3.3 The Procedure of Developing English Reading Test**

There are some procedures of developing English reading test that included need analysis, target needs, learning needs, design instruction, developing materials, expert validation, development of validation, tryout of material, revision and the last is final product that will be explained below.

### **3.3.1 Need Analysis**

Need analysis is really important to make a good test for the student. In need analysis, we conduct an observation to figure the problem that is faced by the student. The observation will be done by interviewing the teacher. The researcher will give interview sheet to the teacher. The interview sheet content about finding the general performance of the first grade student in SMP Manbaul Ulum, material that is used, the problems of teacher, and the teacher ways to test their students' reading.

#### **3.3.1.1 Target Needs**

The subject of this study is first grade at SMP Manbaul Ulum. It means that the students are between 12-14 years old. According to Piaget's theory, the

students in this group age are in the stage of formal operational or they have been able to think abstractly so that they can solve their problems.

The researcher gives questionnaire to the students to know the target needs in learning reading. Then, the researcher should know the syllabus, course book, and the material taught should be matched. Curriculum first semester in reading included of two topics, those are pronunciation and intonation, short text.

According to the result of questionnaire, the problem found that the students feel bored of reading test in the form of written paper, although the teacher had given the test in easy way. The researcher hopes that developing reading test in the form hot potatoes to make the students become more interesting and enjoy to learning reading.

The researcher tries to find the suitable reading topic based on syllabus and book. So, the researcher makes lists some reading test that possible to be used, be taught, and useful for the students.

### **3.3.1.2 Learning Needs**

According to Hutchinson and Waters (1993), analyzing learning need is important for the teacher to get information about the learners in order to facilitate them well and it will stimulate, motivate and arrest learners' attention in the teaching and learning process.

The important thing when doing observation and analysis is syllabus. Syllabus is a set of teaching tool; it consists of the material use, resources, time needed, learning experience, etc. The researcher will develop the test based on the

syllabus and curriculum 2006. The researcher used syllabus which has been already used by this school.

The test could be useful for the students to master reading. That is why the researcher tries to find the most coming up issue in elementary school by giving questionnaire to the students. From this way the researcher knows that students like a test which is included of picture and multiple choice test. The researcher tries to make some variations that can be done in the classroom. The variation is one of the major factors in teaching learning process that can motivate and interest the students to learn English Reading. So it can't make the students' feels bored to do it.

This is the example of prototype that will be used by researcher:

<b>Audience</b>	<b>Topic</b>	<b>Number of Questions</b>	<b>Contents</b>
The students of seventh Grade at SMPMANB AUL ULUM	<b>Based on syllabus</b>	- <b>10 Questions</b>	Based on questionnaire and interview
	<b>Based on syllabus</b>	- <b>10 Questions</b>	Based on questionnaire and interview
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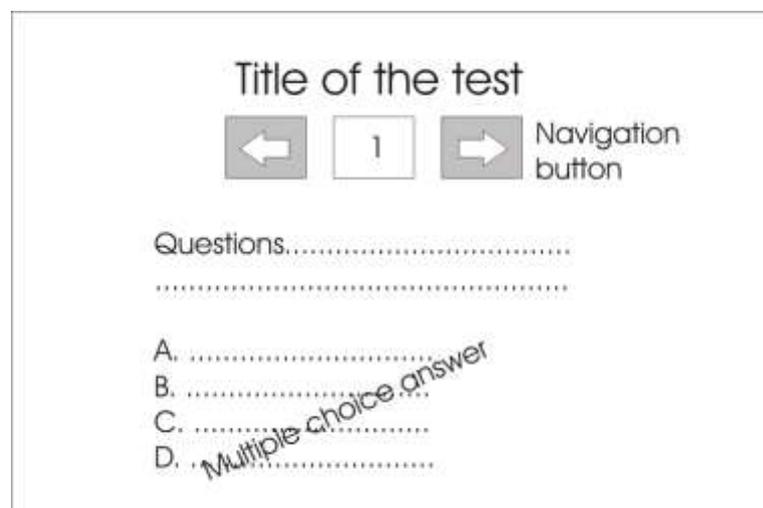
### **3.3.2 Design Instruction**

The design is built based on need analysis of the students. The researcher will develop reading test. The test have colorful, many pictures and interesting topic. So, it can make students more interesting and enjoyable to learning reading.

The researcher designs the test development especially to help the first grade student of junior high school in reading mastery.

Here is the design of reading test development. The researcher will develop four topics in the first semester, these are greetings, instruction, shopping list and announcement text.

The writer tries to make planning of the test according to the syllabus, and the syllabus already used from the school.



### 3.3.3 Developing Test

The writer expects by developing reading test, it can make student more interesting to the learning process and make student understand to learn reading with the content of test consist of colorful test, interesting topic and many pictures. So it can make students enjoyable and fun to learn English Reading with something new than old form of the test.

The design of this study is developmental study. In the end of study, the product of this research is a reading test in the form of hotpotatoes which is implemented at SMP Manbaul Ulum.

### **3.3.4 Expert Validation**

After the test is finish, it should be validated to the expert.

The experts will get a checklist of courseware. There are two experts validations; the English teacher of the school and the Advisor in English Department in University of Muhammadiyah Gresik.

The function of the first expert validation is checking the test with the curriculum and syllabus. The function of the second expert validation is checking the instructional of the test.

### **3.3.5 Development of Validation**

When the expert validation is finish, the researcher will see the comment and suggestion. It is to improve the product to be better. From those comment and suggestion the researcher know whether the test needs to improve, revise, add, or delete.

### **3.3.6 Tryout of Test**

After finishing the test development, the researcher will try out the test to the first grade students of SMP Manbaul Ulum. The researcher takes twenty students and the teacher helps the researcher to do the try out.

#### **3.3.6.1 Reliability and Validity test**

Reliability is necessary of any good test. For it to be valid, a test must be reliable as a measuring instrument (Heaton, 1975:155). In other word, reliability means the stability of the test score. When a test has constant result from time to time, means that test belong to good test. The extent of the sample of material

selected for testing; whereas validity is concerned chiefly with the content of the sample, reliability is concern with the size (Heaton, 1975:155). To know the reliability of the development of reading test, the researcher uses SPSS program to measure it.

### **3.3.7 Revision of The Test**

After doing the try out, there would be some revisions that should be done to make this product ready to be applied. The revision was done based on the expert suggestion.

### **3.3.8 Final Product**

After doing revision, the final product is reading test which it implemented at Manbaul Ulum junior high school. This test would be ready to be given to students.