

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 English vocabulary material which can be applied in real education. The end of the study, the product will be in form of teaching material (.html) file, as media of vocabulary development.

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

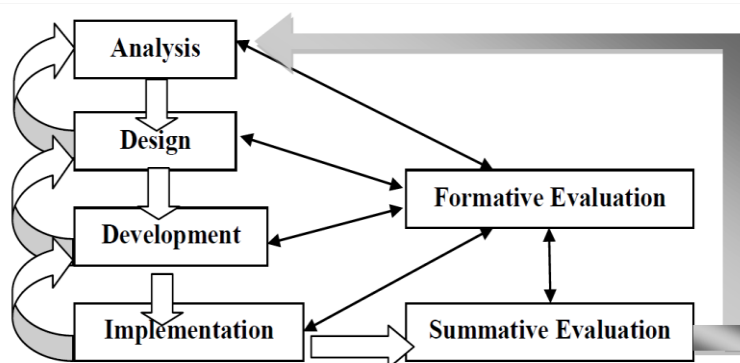
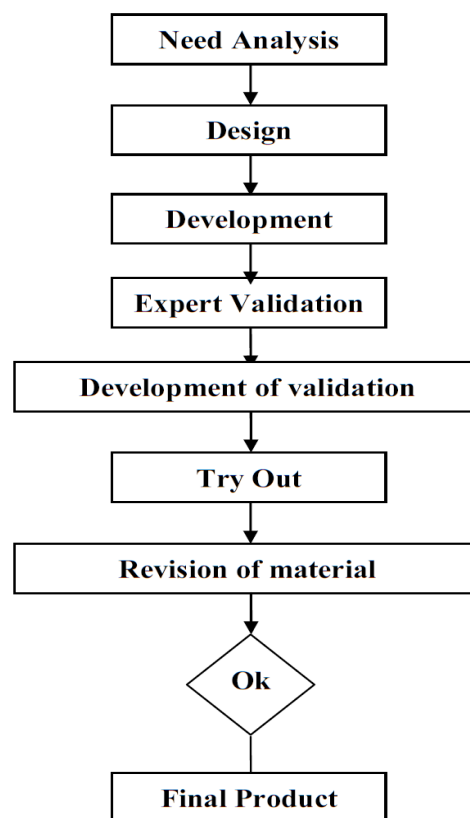


Figure 3.1 Steven J. McGriff's ADDIE Model
(http://www.e-learningguru.com/articles/art2_1.htm)

From the flow steps of Steven J. McGriff's ADDIE model, the researcher modifies the steps to conduct the research with adding an expert validation steps. It is because the researcher is not the expert one so that to measure the validity of the development product, the researcher needs an expert validation from the expert researcher and teacher of the study. It is adapted from Dewi Aisyah's ADDIE model, 2011. The modified steps that composed by the researcher are displayed in this chart.



Modified ADDIE Model

This model of research will be used in this development study; it will be explained in the procedure of developing English vocabulary material for student in eighth grade junior high school.

3.2 Instrument of Data Collection

The researcher uses some instruments in collecting the data. First, interview will do with the English teacher of eighth grade in MTsN Gresik. Second, checklist of courseware will be given to the expert to measure validity of development material. The last, questionnaire will be given to the students before and after they get the material so we can measure the understanding level of students vocabulary ability and their motivation on learning process.

3.3 The Procedure of Developing English Vocabulary Material

3.3.1 Need Analysis

Need analysis is really important to make good material for the students. There is a stage to gather need analysis, that is to know the target need to compose the material which is suitable with the need and aim of the study.

3.3.1.1 Target Needs

The subject of this study is eighth grade of MTsN Gresik. 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 vocabulary. Then, the researcher should know the syllabus, coursebook, and the material taught should be matched.

Curriculum in second semester included of three topics, those are celebration, legend, and friendship.

According to the result of questionnaire, the problem found that the students got difficulties in memorizing some vocabularies, although the teacher had taught the previous meeting. The researcher hopes by using J-Cross program the students become more interesting and easy memorizing some words.

The researcher tries to find the vocabulary for each topic by seeing vocabulary based on syllabus, lesson plan, and book. So, the researcher makes lists some vocabularies that possible to be used, be taught, and useful for the students. These are the lists:

**List of English Vocabularies at 2nd Semester
8th Grade of MTsN Gresik**

No	Topics	Vocabularies based on syllabus	Vocabularies based on lesson plan	Vocabularies from Priyana, Joko. 2008. <i>Scaffolding</i> . Jakarta: Depdiknas.
1	Celebration	1. Annual 2. Crowded 3. Custom 4. Disaster 5. Festival 6. Fireworks 7. Forbidden 8. Grant 9. Happy 10. Holly 11. Merry 12. Offering	1. Army 2. Boxing day 3. Candles 4. Children's day 5. Christmas 6. Circumcision 7. Day of the dead 8. Diwali 9. Dragon 10. Fasting 11. Halloween 12. Hanukkah	1. Annual 2. Carve 3. Decide 4. Devil 5. Drunkard 6. Festival 7. Folklore 8. Forbidden 9. Grant 10. Immigrant 11. Pray 12. Prosperous

		13. Pray 14. Promise 15. Region 16. Religion 17. Safe 18. Tradition 19. Wish 20. Worship	13.Holy festival 14.Idul adha 15.Jail 16.Love 17.Mother's day 18.People 19.Prison 20.Puppet show 21.Santa 22.Sekaten 23.Soldier 24.Thanks giving 25.Vacation 26.Valentine's day 27.Wedding party	13. Pumpkin 14. Region 15. Reign 16. Sacrifice 17. Trickster 18. Turnip 19. Worship 20. Forbidden 21. Tempt 22. Trap 23. Devil
	Total	20	27	23
2	Legend	1. Afraid 2. Angry 3. Beautiful 4. Curse 5. Evil 6. Fiction 7. Folklore 8. Fortune-teller 9. Giant 10. Handsome 11. Kind 12. King 13. Magician 14. Miracle 15. Poor 16. Prince 17. Princess 18. Queen	1. Angry 2. Beautiful 3. Chili 4. Cinderella 5. Coast 6. Cucumber 7. Garlic 8. Giant 9. Golden 10.Happy 11.Holiday 12.House 13.Jungle 14.La llorona 15.Little red riding hood 16.Malin kundang 17.Onion	1. Cure 2. Curse 3. Disease 4. Evil 5. Expect 6. Famous 7. Fortune-teller 8. Giant 9. Haunt 10. Illness 11. Insist 12. Jump 13. Mad 14. Magician 15. Merchant 16. Miracle 17. Moral 18. Noble

		19. Rich 20. Step mother 21. Witch	18.Palace 19.Pretty 20.Rescue 21.Risk 22.Sad 23.Sangkuriang 24.Sea 25.Snail 26.Snow white 27.Stay 28.Tired 29.Weary 30.Witch	19. Patient 20. Poor 21. Prince 22. Princess 23. Proof 24. Rich 25. Spirit 26. Step mother 27. Stinky 28. Terrify 29. Unfortunately 30. Witch
	Total	21	30	30
3	Friendship	1. Amusing 2. Closely 3. Enemy 4. Fable 5. Feel 6. Fighting 7. Friend 8. Gift 9. Give 10. Helpful 11. Important 12. Indeed 13. Kind 14. Love 15. Meet 16. Partner 17. Profit 18. Recognize 19. Response 20. Share	1. Arrogant 2. Bear 3. Best 4. Clever 5. Crocodile 6. Diligent 7. Famous 8. Fisher 9. Friend 10. Hence 11. Lion 12. Mouse deer 13. People 14. Popular 15. Pupil 16. Ring 17. Shepherd 18. Short 19. Snake 20. Student	1. Accusation 2. Aid 3. Amusing 4. Attack 5. Beg 6. Bravely 7. Cage 8. Coincidence 9. Discover 10.Examine 11.Fable 12.Feel 13.Fiction 14.Friendship 15.Heal 16.Imprisoned 17.Indeed 18.Kinship 19.Meet 20.Ownership

		21. Sincere 22. Value	21. Tailor 22. Tall	21.Plain 22.Popularity 23.Prey 24.Proverb 25.Pull 26.Recognize 27.Release 28.Shepherd 29.Surprise 30.Thorn 31.Touching 32.Value
	Total	22	22	32

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 material based on the syllabus and curriculum 2006. The researcher used syllabus which has been already used by this school.

The material could be useful for the students to master vocabulary. That is why the researcher tries to find the most coming up issue in junior high school by giving questionnaire to the students. From this way the researcher knows that students like to operate computer to play game, and the researcher realizes that computer is the potential media to teach vocabulary. 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 vocabulary. The teacher usually teaches by using coursebook. One of the variations is by using computer to motivate the students, because they have never learned with this kind of media. It will be new thing for them in learning English.

The researcher chooses J-Cross program as a media to teach English vocabulary because it is simple and free software that is useful to design digital educational materials, especially exercises and tests. It is a media to create digital crossword puzzle. The researcher uses digital crossword puzzle to review vocabulary and lessons for all subjects because digital crossword puzzle to encourage logical thinking and correct spelling. The pedagogical advantages of this combination of tools are clear. Adding a lexical resource to digital crossword computer-based exercise motivates

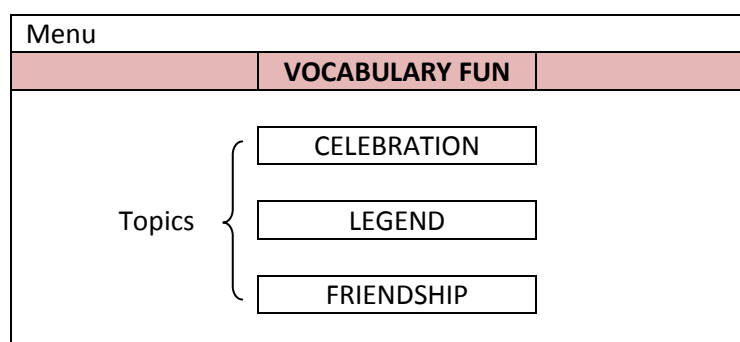
the student to learn, to try, to make mistakes, to explore and try again.

3.3.2 Design Instruction

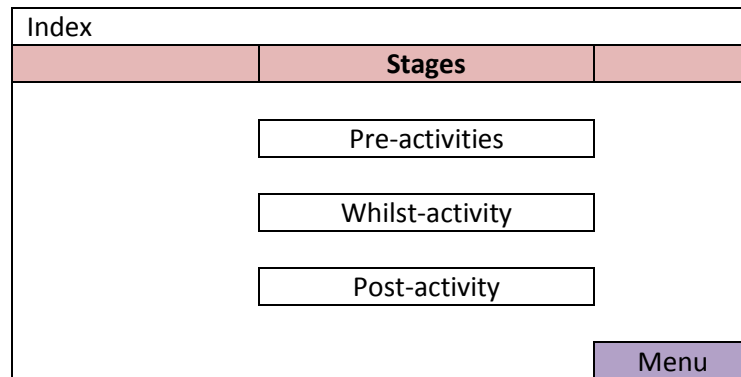
The design is built based on need analysis of the students. The researcher will develop the material by using J-Cross program. The program is in the form of html (a file format of firefox). It is completed by words, pictures, and sounds. The researcher designs the material development specially to help the eight grade student in vocabulary mastery.

Here is the design of material development vocabulary. The researcher will develop three topics in the second semester, these are celebration, legend, and friendship. For instance:

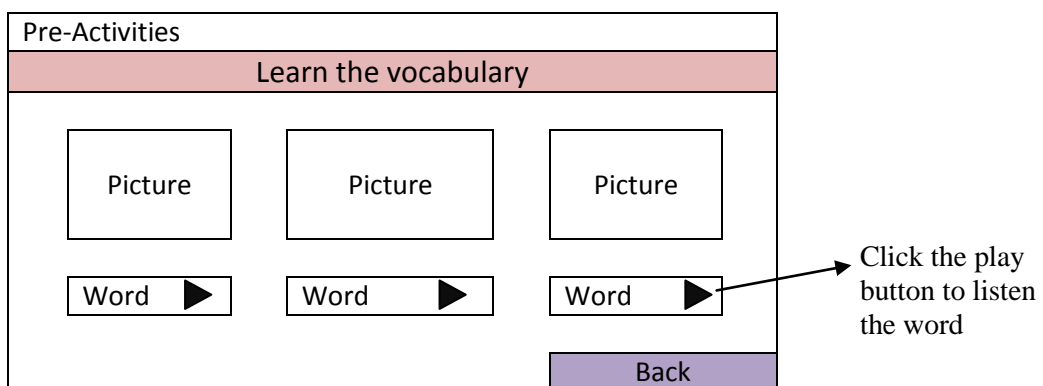
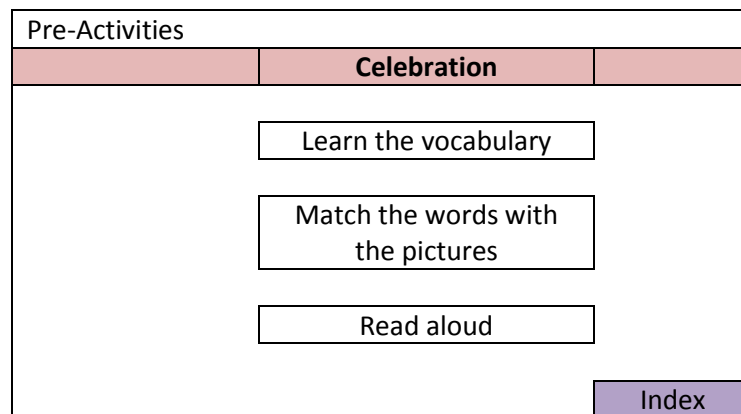
- 1) Main menu: it consists of three topics.



- 2) Index: Each topic will be divided into three stages. These are pre-activities, whilst-activities, and post-activities.



- 3) Pre-activities: it consists of three language skills activities: listening, speaking, and reading. The students learn the vocabulary, match the words with the pictures, and read the text then match the words with its synonyms.



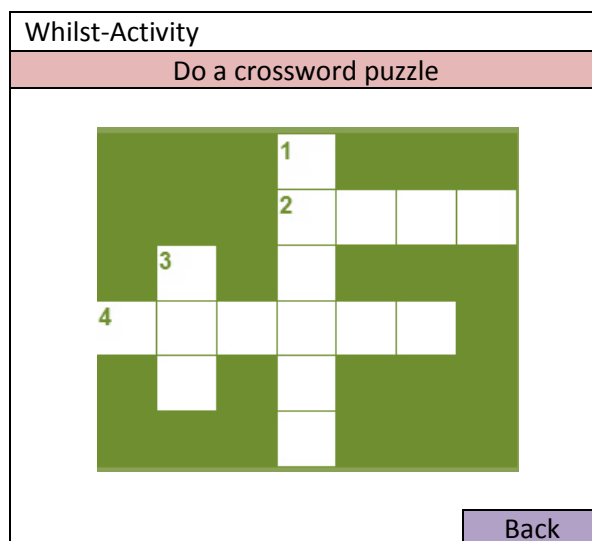
Pre-Activities	
Match the words with the pictures	
Word	Picture
Word	Picture
	Picture
Back	

Pre-Activities	
Read Aloud	
Reading text	Princess : <div style="border: 1px solid black; padding: 2px;"> ▾ King Pretty Queen </div>
Back	

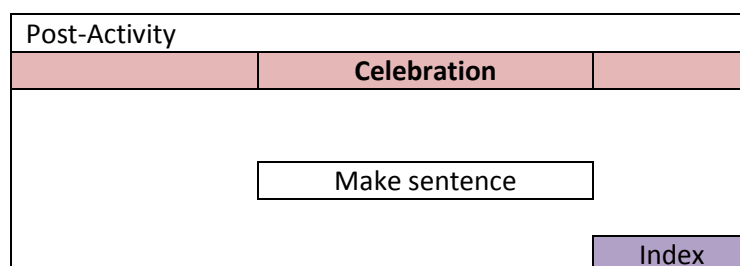
Choose the correct one its synonym through arrow down

- 4) Whilst-activity: it is a main activity. It is in the form of digital crossword puzzle that is completed by some clues in the form of words, pictures, and sounds. The students have learned some vocabularies in pre-activities.

Whilst-Activity		
Celebration		
Do a crossword puzzle		
Index		



- 5) Post-activity: it is last activity. The stage is reviewing and clarifying the students's vocabulary by making sentences to develop their vocabulary.



3.3.3 Developing Material

The researcher develops the material in a form of *html* in CD-ROM. This program consists of three stages;

Pre activities, the students would be introduced with several vocabularies which divided into some different topics. In each topics, the students will see some pictures which is completed with the play button to listen the word, match the words with the pictures, read the text, and match the words with its synonym.

Whilst activity, the students are invited to try out their ability in recognizing certain vocabularies which they have learned some vocabularies in pre activities. It is in the form of crossword puzzle which is completed by some clues in the form of words, pictures, and sounds.

Post activity is reviewing and clarifying the students's vocabulary by making sentences to develop their vocabulary.

3.3.4 Expert Validation

After the program 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 University of Muhammadiyah Gresik.

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

3.3.5 Development of Validation

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

3.3.6 Tryout of Material

After finishing the material development, the researcher will try out the material or program to the eighth grade students of MTsN Gresik. This test is the form of *html*. The researcher takes six students randomly and the teacher helps the researcher to do the try out.

3.3.7 Revision of Material

Revision will be conducted after the researcher tries out the material for the students in order to make the material completely can be used for eighth grade of junior high school. The revision will be considering the expert's suggestion. There were five components which used for the evaluation; attractiveness, concept, mechanics, content, and originality.

3.3.8 Final Product

This is the last step of developing materials. After having the revision, the final product in the form of *html* in CD-ROM is ready to be applied in the classroom. This program is completed by words, pictures, and sounds which is expected to be able to make the students interested in learning English. The researcher decides three topics in developing material, these are celebration, legend, and friendship. Each topic has several activities such as; introducing the vocabularies by listening,

repeating, matching, reading text, doing crossword puzzle, and writing simple sentence.