

THE EFFECT OF DISCOVERY LEARNING MODEL IN WRITING PROCEDURE TEXT

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Abstract: The aims of the research to know the extent of the using discovery learning model in teaching students' writing in procedure text, the extent of the students' writing in procedure text before and after the using discovery learning model, and to know whether there is any significant effect of between discovery learning model on students' writing in procedure text to the eleventh grade students of SMA Negeri 1 Sihapas Barumun. The research is conducting by using experimental method (pretest posttest one group design) with 31 students as the sample and they are taking by using cluster sampling technique from 2 classes as population. Test and observation are using in collecting the data. Based on the data analysis, it can be found the average of using discovery learning model in teaching students' writing in procedure text is 74.00 categorized "good", and the mean score of students' writing in procedure text before and after the using discovery learning model to the eleventh grade students of SMA Negeri 1 Sihapas Barumun is 68.13 categorized "enough" and 77.52 categorized "good". Furthermore, based on inferential statistic by using t_{test} , the writer find t_{test} less than t_{table} ($4.17 > 1.697$). It means, there is a significant effect of the using discovery learning model on students' writing in procedure text to the eleventh grade students of SMA Negeri 1 Sihapas Barumun.

Keywords: Discovery Learning Model, Writing Ability, Procedure Text

Abstrak: Penelitian ini bertujuan untuk mengetahui sejauh mana penggunaan model discovery learning, tingkat pemahaman siswa dalam menulis teks prosedur sebelum dan sesudah menggunakan model discovery learning, dan untuk mengetahui apakah ada pengaruh yang signifikan antara menggunakan model discovery learning pada siswa. Kemampuan siswa menulis teks prosedur di kelas sebelas SMA Negeri 1 Sihapas Barumun. Penelitian ini dilakukan dengan menggunakan model eksperimental (pretest posttest one group design) dengan 31 siswa sebagai sampel dan diambil dengan menggunakan teknik cluster sampling dari 2 kelas. Tes dan observasi digunakan dalam mengumpulkan data. Berdasarkan analisis data, ditemukan rata-rata menggunakan model discovery learning 74.00 dikategorikan "baik", dan rata-rata kemampuan siswa dalam menulis teks prosedur sebelum menggunakan model discovery learning adalah 68.13 dikategorikan "cukup", dan setelah itu 77.52 dikategorikan "bagus". Selanjutnya berdasarkan statistik inferensial dengan menggunakan t_{test} , penulis menemukan t_{test} kurang dari t_{tabel} ($5.34 > 1.309$). Artinya, ada pengaruh yang signifikan antara penggunaan model discovery learning terhadap tingkat pemahaman siswa dalam menulis teks prosedur pada siswa kelas XI SMA Negeri 1 Sihapas Barumun.

Kata Kunci: Model Discovery Learning, Kemampuan Menulis, Teks Prosedur.

I. INTRODUCTION

Writing is one of the importance skills in English. Having good writing skills can help reader to be able to communicate the messages clearly and easily. By writing we can communicate through written text and it can express feeling and thought which are arranged in words, sentences and paragraph. Writing is what you feel, think, share experience and know through written language. People use writing to express their feelings and ideas to communicate with others. In education context, writing is important in the language development. The writing should be systematic and detail. In riting, there are some aspects should be mastered like vocabulary, structure, spelling, and punctuation. These aspects are important to master in order to be able to produce good writing. Senior High School students must know several kinds of genre writing. such as procedure, narrative, procedure, report text, expository and so on.They are supposed to be able to write short passages of different kinds of texts. One of them is writing procedure text. Procedure text is a text that is designed to describe how something is achieved through a sequence of actions or steps. Learning of procedure text is one of the subjects in writing skill. In writing procedure text, the students must write

the text based on the generic structure and language features. It's text ask the students to write clearly about the step how to do something. However, based on the interview with the teacher of English at eleventh grade students of SMA Negeri 1 Sihapas Barumon. The students got some obstacles in writing of procedure text. The example, students' writing achievement is low. it was found that the result of their writing especially in procedure text material is only on average 70. Apparently their score is still under the standard, while the criteria of minimum mastery (KKM) at eleventh grade students of SMA Negeri 1 Sihapas Barumon is 75. Based on information from the teacher, the students unable to arrange the procedure text well. When they wrote the text, they didn't give a goal and didn't give a step how to do it. The students are lack of vocabulary. They are not able to write because they don't have many vocabularies. If the teachers ask them to write paragraph, they are directly open dictionary. For consequences in final semester, they are difficulty to write paragraph. This problem happened because of some factors such as the low of the students motivation, interest, and attitude especially in studying the English, the low of their mastery of the other language factors such as the grammar, vocabulary, pronunciation, writing, etc. The

other factor that may be caused the problem was the weakness of the teacher ability in chose and used the most relevant methods in teaching the students in the classroom. There are many efforts that have been made by the teachers, the school or government to improve students' achievement to be maximum such as completed the learning facilities, by improving the quality of educators through certification programs by the government, motivating students, teachers also make additional learning, the teachers' way in teaching, and forming study groups. But, the problem still not able to solved, and the teachers should develop their ability to find out a good method or model to teach some English lesson. If this problem is not solved, it would have been a significant effect on educational goals such as the failure of the students in examination, students motivation is low and may be students will be bored in teaching and learning process. In order to helping students in writing procedure text, the researcher will try to use discovery learning model. So, the writer wants to help the students give new information and knowledge about technique of writing procedure text. There are many models that can be used in teaching writing procedure text such as: expository learning model, picture and picture model, contextual teaching and learning

(CTL), jigsaw, role play, problem based learning model and so on. In this case, to improve students' writing achievement especially in procedure text, the writer tries discovery learning model. Discovery learning model is the teacher acts as a guide by providing opportunities for students to learn actively, as the teacher's opinion must be able to guide and direct student learning activities in accordance with the objectives. In discovery learning model, students are encouraged to learn largely through their own active engagement with concepts and principles, and teachers encourage students to have experiences and conduct experiments that allow them to discover principles for themselves.

1. The Nature of Writing Procedure Text

Sukino (2010: 9) states that, writing can make someone able to think critically and systematically. Hyland (2003) and Silva (1990) in Sari (2017:2) state that writing is a service activity through which learners can solidify their knowledge of vocabulary and other grammatical structures. In writing, there are many types genre of writing such as recount, narrative, procedure, procedure, and news item in the context daily life. In this case the writer only discuss about procedure text. In mastering procedure text the

students are expected to be able to understand about: a) definition of procedure text, b) social function of procedure text, c) generic structure of procedure text, and the last d) language feature of procedure text. Sari (2017:2) also says that, "A Procedural text is used to tell someone how to make something. Thus, procedures helps us do a task or make something. They can be a set of instructions or directions, step by step method to germinate seeds." Maharani (2007: 54) says that, procedure text is a text that contains information that can help us to do something or make something. The information in the text procedure contains a sequence of steps that we must perform. Kasyulita (2015:4) states that, the purpose of procedural text is to provide sequenced information or directions so that people can successfully perform activities in safe, efficient and appropriate ways. Maharani (2007:54) states that the generic structure of procedure text is as follow: Aim-Materials-Steps. Aim contains the purpose of the activity or title. Materials contain the materials needed. In the materials section is optional (may or may not exist). Steps in the form of steps to perform such activities. Saun and Putri

(2018:338) describe that language feature is the element of language that is involved in a text. In the procedure text, there are several language features that are constructing the text. the common grammatical features used in procedure text are imperative sentence, simple present tense, action verb, and temporal conjunction. Based on some description above, the writer can be concluded that Procedure text is a kind of text which aims to give guidance about steps to do something. Basically, this text consists of tips or sequence of steps in making something or in doing such activity.

2. Nature of of Discovery Learning Model

One of the model that can apply in writing text is discovery learning model. Roestiyah (2012) in Istarani (2012: 51) says that discovery is a mental process where students are able to combine concepts and principles. These mental processes include activities: observing, digesting, understanding, classifying, making assumptions, explaining, measuring, making conclusions and so on. According to Anam (2015:110) discovery learning is learning process which is focused in discovering problem

(learning sources) that come from factual students' experience. Further, Istarani (2012:51) says that the procedure in using discovery learning model is as follows:

- 1.The teacher explains what problem that must be discovered.
- 2.The teacher prepares the material or media which is used in discovery learning model.
3. Teacher provides students' work sheet in applying discovery learning process.
- 4.Teacher provides Students' worksheet as a procedure in learning.
- 5.Report the result of discovery.
6. Evaluation,
7. Conclusion.

Based on the opinions above, it can be concluded that by using discovery learning models improve student reasoning and the ability to think freely. Specifically learning discovery trains students' cognitive skills to find and solve problems without the help of others so that this model is very suitable to be used to improve students' writing skills independently.

II. METHODOLOGY OF RESEARCH

The writer takes the place of this reseach in SMA Negeri 1 Sihapas Barumun which is located at JL.Padang Hasior, Kecamatan Sihapas Barumun, Kab. Padang Lawas. This research

used experimental method with pre-experimental research design; one group pre-test post test design. In collecting data with one group pre-test post test design, the research used test and observation sheet as the instrument. The test is used to measure the students' writing in procedure text and the observation sheet is used to observe the researcher in using discovery learning model. The procedures of this research design were: 1) the students are given pre-test first and the researcher got the data, 2) the researcher applied the treatment to increase the students' achievement, 3) after the treatment is given, the students are given post-test and the researcher got the data, 4) the scores of pre-test and post-test are compared by the researcher. The research used quantitative data which is gotten by the researcher from calculating mean, median, and mode score from the test of procedure text and observation sheet of discovery learning model. In analyzing the data, the researcher used t_{test} formula to look for the significant effect of discovery learning model on the students' writing in procedure text.

III. RESULT

After conducting the research in SMA Negeri 1 Sihapas Barumon by contributed observation sheet and test to the eleventh grade students to see the effect of of SMA Negeri 1 Sihapas Barumon on the students' writing in procedure text. Then, the researcher described the data which are calculated by using statistical analysis. First, the application score of discovery learning model on the students' writing in procedure text is described as follows: The mean score of the used discovery learning was categorized "good". It can be showed by the students mean score was 74.00. The score of 74.00 got from the calculation of observation during the implementation of concept sentence model. There were 20 aspects by observer based on the steps of discovery learning. It means that, the writer used discovery learning running well. The mean of pretest was 68.13 and it was categorized as a "Enough" achievement. The mean of posttest was 77.52 and it was as a "Good" achievement. The table showed that pretest score was higher than posttest score. In analyzing data to look for the effect of discovery learning on the students' writing in procedure text, the researcher does the hypothesis testing by using t_{test} . It was compared with the score of

t_{tabel} 1.697 with $(df) = (N - 1) = 31 - 1 = 30$. Therefore, it can be seen t_{tabel} 1.697 ratio between t_{test} by t_{tabel} is seen that $t_{\text{test}} > t_{\text{table}}$ that is $4.17 > 1.697$. Based on the consultation result of the value, the alternative hypothesis formulated in this research is accepted, it means that, there is a significant effect between of the using the discovery learning model on students' writing in procedure text at the eleventh grade of SMA Negeri 1 Sihapas Barumun or H_a is accepted.

IV. DISCUSSION

Based on the observation sheet result of discovery learning model on students' writing of procedure text, the researcher found that the score was 74.00. The score is categorized as "Good" criterion. Furthermore, the result of the students' in writing procedure text before using of discovery learning model the mean score of the students is 68.13, it can be categorized into an enough category. While the the students' achievement in writing procedure text after using discovery learning model the mean score of the students is 77.52, it can be categorized into a good category. It means that there is an improvement on the students' achievement in writing procedure text after taught by using discovery learning model. The using of discovery learning model

on students' writing in procedure text at the eleventh grade of SMA Negeri 1 Sihapas Barumun was make students easier to write the procedure text. The students' writing in procedure text higher after teaching by discovery learning model. The research thought and presumed that discovery learning model is suitable model to use in teaching and learning process especially in writing procedure text. By using this model the learning process will make students more active in the teaching and learning process, makes the student to be more creative, enthusiastic, be interested, and the student's mastery in writing can be increased. That is why, this strategy is capable of improving student activities and their ability. It would be give big effect on the students' writing in procedure text. That's why the hypothesis in this research is accepted.

CONCLUSION

- 1) The using of discovery learning model to the eleventh grade students of SMA Negeri 1 Sihapas Barumun is good category. It can be seen from the mean score of the students, that was 7.40.
- 2) The mean score students' writing ability in procedure text before using of discovery learning model to the

eleventh grade students of SMA Negeri 1 Sihapas Barumun was 68.13, it can be categorized into an enough category. While the description of the students' writing ability in procedure text after using discovery learning model to the eleventh grade students of SMA Negeri 1 Sihapas Barumun was 77.52, it can be categorized into a good category.

- 3) The hypothesis in this research was accepted. It means that "There is a significant effect of the using discovery learning model on students' writing in procedure text to the eleventh grade students of SMA Negeri 1 Sihapas Barumun". It can be seen from the score of t_{test} is higher than the score of t_{table} ($4.17 > 1.697$).

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