IMPROVING THE VOCABULARY MASTERY THROUGH WORD-CONNECTION GAME

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ABSTRACT This research aimed at finding (1) whether the use of Word-Connection game significantly improved the students vocabulary mastery of the first grade students of English Education in Universitas Muslim Maros on academic year 2018/2019, and (2) their attitudes toward the use of this game. Method of this research was experiment with 2 classes as the samples. It employed 30 numbers of vocabulary test then analyzed by using inferential statistic SPSS program 25.0 and 20 numbers of close-ended questions questionnaire to find out their attitude towards the use of Word-Connection game. Result of the research shows that the mean score improved significantly at the experiment group from 3.476 to 8.356, but at the control group only from 3.950 to 4.550. Standard deviation at experiment group decreased from 1.2444 to 0.9238 and at control group from 1.5472 to 1.7604. Range on normalized gain score at the experiment group was 0.37, smaller than control group which was 0.43. Standard deviation on normalized gain score at experiment group was 0.115511 whereas at control group was 0.11075. Furthermore, data which were collected from questionnaire indicated that the students had positive attitude toward the use of Word-Connection game an improve the students vocabulary mastery at the experimental group.

Keywords: Word-Connection game, vocabulary, attitude

A. INTRODUCTION

earning English is not as easy as one might expect. Many students face difficulties to express their minds, ideas, feelings and experiences because they always lost their words to say and just blank. They sometimes also do not understand the meaning of some words so they miss the point of some information. The worst effect of such situations will create disconnection between the speakers and the listeners. Accumulation of these bitter facts may happen because their lacking in vocabulary. Vocabulary learning as an essential part in foreign language learning, whether in books or in classrooms is also central to the teaching and importance of language to language learners (Alqahtani, 2015).

Properly, vocabulary skills are taught to the students in the early stage of learning English, because this skill is the basic weapon for them to write or speak. Without any structure needed, learning vocabulary become the easiest subject in English department. This is why when the students mastered sufficient vocabulary, it will be easier for them to master the four micro language skills that are reading, speaking, listening and writing.

The fact that the students are getting low interest in learning vocabulary caused by the thought that vocabulary has so many words which will be difficult to understand if the people didn't know about the function of it. It is realized that to express something we need more than one word to make people understand and to make the sentences clear in the language learning of vocabulary (Rizki et al, 2013). The monotonous method used by the teachers or the classroom situation like custom of speaking with regional language especially in village (Maros for example), also take parts in deficiency interest. These all hit the students' motivation to learn vocabulary whereas we all know that motivation is one of the greatest supplements in learning English. Some of them do better because they are better motivated.

Objectives of this research were studied as follows (1) to describe the significant improvement of vocabulary mastery of the first grade students of English Education in Universitas Muslim Maros on academic year 2018/2019 by using Word-Connection game, and (2) to describe their attitudes toward the use of this game.

B. REVIEW OF LITERATURE

Generally, teaching and learning cannot be separated from what we call interaction. The interaction can exist if the process of teaching and learning well done. Learners often instinctively recognize the importance of vocabulary to their language. Motivation, aptitude and learning strategies are important individual factors influencing on a learner's language acquisition (Akdogan, 2018). According to Oxford and Nyikos (in Nirattisai, 2014), vocabulary learning strategies are methods that allow learners to enhance their learning autonomy, independence, and self-direction so the level of vocabulary learning strategy use highly depend on the students themselves. Students with more control of their own learning will employ strategies more frequently.

The students and the teachers need solutions directly to feel the advantages of learning materials by experiencing and learning vocabulary. One strategy in developing it is by playing games. Playing games is considered effective because the teachers indirectly put an element of fun to excite the students who are bored with the material. Yip and Kwan (in Aghlara et al, 2011) suggested that students who used games for their learning became more successful in learning new words compared to those who learned the same vocabulary through traditional method. Moreover, Scrivener in Derakhshan & Khatir (2015) stated that by using vocabulary games, learning process

is going to be more valuable, this method can make vocabulary learning more enjoyable, so it can help students to retain target words more quickly. Similarly, Aslanabadi and Rasouli (2013) found that game is not only bring fun for learners to the class, but they also motivate learners and improve their confidence.

Word-Connection game is a game which surely can motivate the students to learn English. Here, they will try to figure out what the words behind the letters. Actually, the writers were inspired by two famous games on television which are "Kata Berkait" and "Komunikata", then they combine these two games into one excited activity. This game is played by two or more groups (10-15 people for each) and takes their concentration about vocabulary. Each group will have several minutes to read some articles and understand the words (especially new or uncommon words) before playing the game. Then they will ask the letter by letter to guess the secret words and finally the most excellent group will join the bonus phase.

Based on the study results above, we can conclude that learning vocabulary through games is one effective and interesting way that we can apply in the classrooms. But the teachers should monitor their students to make sure that the structure and rules of the game are applied well and fair. Teachers also should encourage students to take advantage of games in their learning process, not just playing the game and let it take higher rank over the learning purpose.

C. METHOD

Method of this research was experiment and manipulated the condition to find out a certain result such as students vocabulary achievement and attitude. It employed two groups as the research subjects, class 1A as the experiment group and was treated by using Word-Connection game, the other group was class 1B as the control group and didn't taught by the game, but still they were taught vocabulary by using conventional method. Independent variable of this research was the use of Word-Connection game and the dependent variable was the students' achievement and attitude.

Instrument

There were two instruments used in this research as follows: (1) vocabulary test, the students were tested through pretest and posttest which consist of 30 numbers multiple choices to measure their achievements in mastery vocabulary, (2) questionnaire, consist of 20 numbers of close-ended questions which can explore the student's attitude in the learning process, especially towards the use of Word-Connection game.

Procedure

Before starting the treatment, pretest which consist of 30 numbers of vocabulary test were given to experiment and control groups, time duration was 90 minutes. Then the treatment called Word-Connection game were held within 14 meetings, mostly at the end of the meetings. The treatment procedures consist of 3 phases, 1st phase started by presentation where the writers explained material about vocabulary, then explained and included the Word-Connection game, then divided the students into 4 groups (6-7 students per group). 2nd phase was practice, the writers applied Word-Connection game and explained the clues about the topic question which was taken from the lesson material only. There, some slides showed a big table which consist of 7 lines, the first and the last lines filled by the a word, each group had their turn to open the letter then guessing the hidden word. The two winning groups would enter bonus phase where they had to mention 5 Secret Words related to the Key Word. The 3rd phase was production, here the writers asked the meaning of all the words presented in the game, then the students mentioned and spelled the letters 1 by 1 perfectly and fastly. After presenting the materials and treatments, the writers applied posttest about 30 numbers (the test questions and procedures were the same with the pretest for both groups). A questionnaire also was given after that at the experiment group to get measurement result toward the use of Word-Connection game in learning vocabulary which consist of 20 numbers close-ended questions.

Data analysis

The data were collected and analyzed by following these procedures:

a. The vocabulary tests consisted 30 numbers of multiple choice questions. The students get 3 score for every correct answer. If a student answers all this test correctly, his total score is 10. We calculated the students' result by applying the formula below. Then the minimum and maximum scores could be seen.

A student score = $\underline{\text{the score gained}}$

the maximum score x10 (Gay, 2012)

b. Classifying the students' pretest and posttest scores into 7 categories as follows:

Score	Category
9.6-10	Excellent
8.6-9.5	Very good
7.6-8.5	Good
6.6-7.5	Fairly good
5.6-6.6	Fair
3.6-5.5	Poor
0-3.5	Very poor

Table 1. Scoring classification

c. Calculating the Range, Mean and Standard deviation of pretest and posttest by using program SPSS 25.0.

d. Calculating the Normalized gain score of pretest and posttest with formula as follows:

<g> = pretest or postest score10-pretest score

where: $\langle g \rangle$ = normalized gain score (Widyoko, 2009)

e. After distributing the questionnaire at the experiment group and calculate the result, the data were analyzed by using the percentage analysis formula below:

p=fqNx100%

fq = number of frequency

n = number of respondents (Sugiyono, 2015)

f. Then the result classified based on Likert scale as follows:

	8 5
SCORE	CLASSIFICATION
85-100	Strongly positive
69-84	Positive
53-68	Fairly positive
37-52	Negative
20-36	Strongly negative

Table 2. Attitude scoring classification

(Tanasy, 2017)

g. Determining the mean score of the students' attitude based on the questionnaire at experiment group by employing this formula:

M = XN

where: M = questionnaire mean score

= total number of the questionnaire scores

N = total number of the students

(Abidin&Purbawanto, 2015)

D. FINDINGS AND DISCUSSION

Finding

This research was held in Campus 2 Universitas Muslim Maros, Kokoa Pamelakkang Je'ne street, Allepolea district, Lau sub-district, Maros regency at the 1st semester of English Education Department, year academic 2018-2019 which contains of 2 classes, class 1A as the treatment group and 1B as the control group. Data result about pretest and posttest regarding their achievement in learning vocabulary before and after employing the Word-Connection game are described as follows:

a. After calculating the pretest and posttest results, some data were gathered from minimum to maximum. Table below illustrates it:

Classification	Pretest experiment	Posttest experiment	Pretest control	Posttest control
	group	group	group	group
Minimum	2.0	6.8	2.0	2.0

	Table .	3.	The	minum	and	maximum	test	scores
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Maximum	6.1	9.8	6.3	7.7

From the table above, we can see that the pretest minimum score at experiment group increased from 2.0 to 6.8 on the posttest, meanwhile at control group the pretest minimum score was 2.0 and did not change on posttest. The same things happened in maximum scores on pretest and posttest as well, where at the experiment group it significantly improved from 6.1 to 9.8, but at control group the improvement was little, which from 6.3 to 7.7 only.

b. Classifying the students pretest and posttest into 7 categories below:

		Experi	ment group	Control group	
Classification	Score	F	0⁄0	F	%
Excellent	9.6-100	-	-	-	-
Very good	8.6-9.5	-	-	-	-
Good	7.6-8.5	-	-	-	-
Fairly good	6.6-7.5	-	-	-	-
Fair	5.6-6.5	3	12%	5	21%
Poor	3.6-5.5	3	12%	6	25%
Very poor	0-3.5	19	76%	13	54%
Total		25	100%	24	100%

Table 4. The classification and the rate percentage of the students pretest score

Based on the table above, the pretest result at experiment group were classified as Very poor 19 students (76%), Poor 3 students (12%) and Fair 3 students (12%). None of the students classified as Fairly good, Good, Very good or Excellent. While on the control group, the students were classified as Very poor 13 students (54%), Poor 6 students (25%) and Fair 5 students (21%). But none of them also classified as Fairly good, Good, Very good or Excellent.

But after giving the treatment name Word-Connection game to experiment group, the students score were amazingly improve. Only 3 students (12%) were classified as Fairly good, 12 students (48%) as Good, 6 students (24%) as Very good and 4 students (16%) as Excellent. Meanwhile at the control group, eventhough they also got improvement, but those are not so significant. There were still 10 students classified as Very poor (42%), Poor 5 students (21%), Fair 6 students (25%), Fairly good 1 student (4%) and Good 2 students (8%). None of them classified as Very good or Excellent.

		Experi	ment group	Contr	rol group
Classification	Score	F	0/0	F	%
Excellent	9.6-100	4	16%	-	-
Very good	8.6-9.5	6	24%	-	-
Good	7.6-8.5	12	48%	2	4%
Fairly good	6.6-7.5	3	12%	1	4%
Fair	5.6-6.5	-	-	6	25%
Poor	3.6-5.5	-	-	5	21%
Very poor	0-3.5	-	-	10	42%
Total		25	100%	24	100%

Table 5. The classification and the rate percentage of the students posttest score

Calculation of the Range, Mean and Standard deviation of pretest and posttest from students' at experiment and control group were derived from SPSS program 25.0 and illustrated as table below.

Statistics	Pretest Experiment group	Posttest Experiment	Pretest	Posttest	Valid N (listwise)
		group	Control	Control	
			group	group	
N	25	25	24	24	24
Range	4.1	3.0	4.3	5.7	-
Minimum	2.0	6.8	2.0	2.0	-
Maximum	6.1	9.8	6.3	7.7	-
Sum	86.9	208.9	94.8	109.2	-
Mean	3.476	8.356	3.950	4.550	-
Std. Deviation	1.2444	.9283	1.5472	1.7604	-

Table 6. Descriptive Statistics

The data above explains that the number of students in the experiment group are 25, and the control group are 24. Range value at experiment group was lower from 4.1 at the pretest, turned to 3.0 at the posttest. Otherwise in control group, the range increased from 4.3 at the pretest turned to 5.7 at the posttest. This indicated that the range data from experiment group was getting narrower but in the control group it was getting wider.

The minimum score at experiment group also increased from 2.0 to 6.8, meanwhile at control group the minimum score was still 2.0. The same things happened in maximum scores as well, where at the experiment group it significantly increased from 6.1 to 9.8, but at control group only from 6.3 to 7.7. The total score at experiment group improved significantly from 86.9 to 208.9, but at control group from 94.8 turn to 109.2 only. The mean scores also significantly improved at experiment group which was 3.476 turns to 8.356, but at control group turns to 4.550 from 3.950.

On the standard deviation at experiment group, it decreased to 0.9238 at the posttest from 1.2444 at the pretest, and at control group it increase 1.7604 at posttest from 1.5472 at the pretest. This proved that the range between the scores with the mean scores for the experiment group was closer than the control group.

d. Calculation of the normalized gain score on the pretest and posttest at experiment and control group can be seen from the table below:

Table 7. Normalized gain score					
Normalized gain score of experiment group	Normalized gain score of control group				
0,67	0,07				
0,95	0,05				
0,89	0,20				
0,69	0,43				
0,85	0,38				
0,68	0,08				
0,70	0,22				
0,91	0,22				
0,68	0,00				
0,66	0,03				
0,63	0,14				
0,66	0,11				
0,60	0,00				
0,75	0,04				
0,93	0,14				
0,93	0,07				

Table 7. Normalized gain score



Table 7 informs us that at experiment group, the lowest normalized gain score was 0.58 and the highest was 0.95. These are very different from the control group where the lowest normalized gain score was 0.00 and the highest was only 0.43. Result from table above also declares us that the highest normalized gain score at the experiment group is categorized as high as classified in table 8 below:

Table 8. Normalized gain score category

Interval	Category
<g> 3 0,70</g>	High
0,30 < <g> < 0,70</g>	Medium
<g> ≤ 0,30</g>	Low

1 able 9. Descriptive analysis result of normalized gain score					
	Normalized	Normalized			
	gain score at experiment group	gain score at control group	Valid N (listwise)		
Ν	25	24	24		
Range	.37	.43			
<u>м</u> с	50	00			
Minimum	.58	.00			
Maximum	.95	.43			
Sum	19.10	2.76			
Mean	.76	.12			
Std. Deviation	n .11551	.11075			

Table 9. Descriptive analysis result of normalized gain score

The data analysis above illustrates us that range at normalized gain score at the experiment group was 0.37 which is smaller than the normalized gain score in the control group which was 0.43. For the minimum and maximum scores, we can see that the normalized gain score at experiment group were 0.58 and 0.95, this means it is higher than normalized gain score in the control group which were 0.00 and 0.43 only.

For the standard deviation on normalized gain score at experiment group was 0.115511 whereas normalized gain score in the control group was 0.11075, where these scores were not so different, which indicates that the scattered data of both groups were the same.

Then the mean score on normalized gain score at experiment group was 0.76 which is categorized as high. Meanwhile the mean score on normalized gain score at control group wass 0.12 which is still categorized as low.

e. Finding out the students interest or attitude towards learning vocabulary by using Word-Connection game can be measured by distributing questionnaires to the experiment group after giving the posttest. The total numbers of the questionnaire were 20 numbers with close-ended model questions. The questions were answered individually within 30 minutes. After getting the students' responds, the data then were counted. The results as below:

Most frequent score	Frequency	Percentage
85	6	24%
81	4	16%
82	3	12%
79	3	12%
88	2	8%
87	2	8%
78	2	8%
83	1	4%
89	1	4%
72	1	4%
Total	25	100%

Table 10. Most frequent questionnaire score

Table 9 above explains that 6 students (24%) got 85 score, and those were the most frequent. Then 4 students (16%) got 81 score. Then 3 students (12%) got 82, also 3 students (12%) 79. 2 students (8%) got 88, 2 other students (8%) got 87 and another 2 students (8%) got 78. For score 83, 89 and 72 each got 1 student (4%).

f. After checking the result above, we classified the students' questionnaire attitude by using Likert scale below. The results are:

Classification	Range of score	Frequency	Percentage
Strongly positive	85-100	11	44%
Positive	69-84	14	56%
Fairly positive	53-68	-	-
Negative	37-52	-	-
Strongly Negative	20-16	-	-
Total		25	100%

Table 11. The students' attitude toward the use of Word-Connection game

In relation to the questionnaire above, there were 11 students or 44% whose score categorized as Strongly positive and 14 students or 56% whose categorized as Positive. These data mean that most of the students had Positive attitude toward the use of Word-Connetion game as supportive learning media.

g. After achieving the frequency and the percentage from the result of the questionnaire forms above, the mean score was counted as follows:

Group	Mean score
Experiment	82.68

Table 12. The mean score of the students attitude

Table above clearly tells us that the mean score of the students attitude at the experiment group was 82.68, which means that the students had positive agreement or statement about applying Word-Connection game in the learning process.

Discussion

a. Students vocabulary achievement

Based on the written test on vocabulary, it is revealed that the students pretest results were very low at both groups. Mean score that the treatment group achieved was 3.476 on the pretest, where 76% or 19 students were categorized as Very poor, 12% or 3 students were categorized as Poor and 12% or 3 students were categorized as Fair. Meanwhile control group actually got better mean score on the pretest which was 3.950, where 54% or 13 students were categorized as Very poor, 25% or 6 students were categorized as Poor and 21% or 5 students were categorized as Fair. But otherwise after the treatment on the posttest, the treatment group achieved significant improvement mean score which was 8.356 where 12% or 3 students were categorized as Fairly good, 48% or 12 students were categorized as Good, 24% or 6 students were categorized as Very good and 16% or 4 students were categorized as Excellent. In this section no more students were categorized as Very poor, 21% or 5 students were categorized as Poor, 25% or 6 students were categorized as Fairly good, 48% or 5 students were categorized as Societa as Excellent. In this section no more students were categorized as Very poor, 21% or 5 students were categorized as Poor, 25% or 6 students were still categorized Very poor, 21% or 5 students were categorized as Poor, 25% or 6 students were still categorized as Fairly good.

A significant difference results also were found on normalized gain score where at the experiment group the result was 0.76 which was categorized as high and at the control group was 0.12 only which was categorized as low. This means that after being treated with Word-Connection game, the experiment group got better effect and achievement in learning vocabulary instead of the control group.

Actually conventional method still can be used in teaching vocabulary, but this research strengthen that adding improvisation by using games can help the students get better results significantly. This is parallel to what Eker & Karadeniz (2014) stated that it's very important that students discover fun and enjoyable aspect of the course and they participate in the lesson actively that can provide more meaningful learning for them by creating discussion environment.

Further, Tanasy (2017) stated that the aim of education is to train the students who participate in the lesson actively and can create alternative ways or stimulation to solve a problem and can think critically, was actually correct. Because while doing this research, the writers

several times stimulated the students by giving some clues about the secret or hidden words or allowing them to check up in dictionary. The students really faced a serious problem in the early meetings that they had very less knowledge of vocabulary or weak in memorizing the words, especially in the experiment group which got even lower sum total scores in the pretest which was 86.9 only compares to control group with sum total scores 94.8. But implying Word-Connection game at the end of the learning process, affected the students at the experiment group better result in mastery vocabulary and excited classroom situation.

b. The students' attitude towards Word-Connection game

Data obtained from the questionnaire forms explained to us that 44% of students attitude were classified as Strongly positive and 56% as Positive with mean score 82.68. This indicated that the students had positive agreement or statement towards the use of Word-Connection game in learning vocabulary. This is similar to Hallajian (2016) finding that it can be concluded that games have some positive aspects and effects, it can be noted to boost creativity. It should be noted that students who use a certain amount of games experience creativity increase and critical thinking.

While learning, the students expect some fun. This is why the role of vocabulary game cannot be denied. However, according to Al Masri & Al Najar (2014), in order to achieve the most from vocabulary games, it is important that suitable games are chosen. Whenever a game is to be conducted, the number of students, proficiency level, cultural context, timing, learning topic and the classroom settings are factors that should be taken into account. For English Education Department at Universitas Muslim Maros experienced, Word-Connection game helps enough to get better achievement, positive attitude and useful tool in mastery vocabulary. Eventually, the writers determined that the use of Word-Connection game can be used in learning process to improve the students' vocabulary and positive attitude instead of using the conventional method only.

E. CONCLUSION

Related to findings, the writers finally brought conclusions that the use of Word-Connection game can improve the students vocabulary mastery at class 1A as the experiment group of English education department of Universitas Muslim Maros. While doing the treatment, the students really helped the writers by their excitement and motivation in following the game. They also felt disappointed when the writers announced that the treatment was over. As a suggestion, the writers suggest that the teachers of English education department should try the Word-Connection game to improve the students' vocabulary mastery or consider to vary it to get more excitement and creativity in the learning process.

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