

Improving Student Interests and learning outcomes for English Subject by using Mind Mapping through Online Zoom Application

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Abstract: This study aims to Improve Interest and Learning Outcomes in English Using the Mind Mapping Method assisted by the Zoom Meeting Application in Class X IPS 2 SMA Negeri 3 Pangkalan Bun. This is a class action research (PTK) study to create better English learning. This PTK uses the Arikunto stage. Each cycle consists of four stages, namely: (1) the action planning stage, (2) the action implementation stage, (3) the observation and inner achievement stage, and (4) the analysis and reflection stage. The research subject consisted of 32 students. Research Instruments use student learning outcomes. Data Analysis uses percentage techniques. The results showed that students' English learning outcomes increased, namely from the first cycle of 32 students of Class X IPS 2 SMAN 3 Pangkalan Bun, there were 23 students, or 72%, who had achieved a KKM score of 73 with an average class score of 75.15. In cycle II, of the 32 students of Class X IPS 2 SMAN 3 Pangkalan Bun, 30 students, or 94%, had achieved a KKM score of 73 with an average score of 81.87. Based on the actions taken, it can be concluded that the Mind Mapping Method assisted by the Zoom Meeting Application can improve the quality of the English learning process.

Keywords: English, mind mapping, interest, learning outcomes, Zoom meeting

INTRODUCTION

English language learning is fun and easy for students to understand, relying on teachers who can apply learning methods. It is also related to the statement related to the learning method: If the learning material is presented interestingly, then student motivation will increase. However, if the learning material is not presented attractively, it will lower students' motivation, so there is a failure in the learning process (Ulfa, 2017; Fauzi, 2022).

However, in the field, teachers tend not to use learning methods, so English becomes a difficult and scary learning. To overcome this, the application of learning methods in English subjects facilitates teachers' presentation in delivering lesson materials and overcoming students' inadequacies and difficulties, making learning more effective. Suppose the application of learning methods can overcome problems in the learning process, especially in delivering messages (material). In that case, students will feel the positive impact and eventually can improve learning achievement in English subjects.

In class X IPS 2 SMAN 3 Pangkalan Bun, the interest in learning English still needs to

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be increased because 44% of students still have difficulty understanding the material. Hence, their interest in learning is not optimal. One of the causes of the lack of understanding of students is that the methods used by teachers are not optimal. According to Prihartini (2017), interest in learning will be encouraged if the learning material has a relationship according to their needs, looking at the development, level of experience, and ability of students, as well as varied learning models and methods.

According to Tony Buzan (2008, p. 4), Mind Mapping is a creative, effective, and literal way of recording that will “map” the mind. Mind Mapping requires children to be innovative and effective in mind mapping through colours and images expressed in mind mapping (Hambali, 2020). In the teaching and learning process, the use of teaching methods greatly helps the success of learning. In this way, students can optimally understand what the teachers convey. The more optimal the technique used by the teacher, the easier the material will be received and remembered; finally, the Method can motivate students to learn better. Here are the steps in making Mind Mapping according to Tony Buzan as follows:

- a. It starts from the middle of a blank paper whose length is laid horizontally. Because when it starts from the centre, it will free the brain to spread in all directions and reveal itself more freely and naturally.
- b. Use an image or photo to centralize because a picture or photograph will have a thousand words that help the brain use the image it wants to convey. A central vision will be more interesting, make the brain more focused, support the brain’s concentration, and activate the brain.
- c. Use attractive colours. Because for the brain, colours are as attractive as pictures. Colours make images more vivid, add energy to creative thinking, and are fun.
- d. Connect the main branches to the central drawing, the components of level two and level three to level one and level two, and so on. The brain is connected to two or three, or four things at a time. If the branches are connected, it will be easier to remember.
- e. Create a curved dashed line, not a straight line, because a straight line will bore the brain. Curved and organized branches such as tree trunks will be much more attractive.
- f. Use one keyword for each row because a single keyword will give more power and flexibility to the mind map (mind mapping).

This study aims to determine how teachers improve student interest and learning outcomes using appropriate and effective learning methods. One of the methods used by the author, namely the Mind Mapping Method, is expected to help teachers carry out learning that is relatively easy for students to understand by generalizing the material so that students can more easily comprehend English subjects and can foster student learning motivation in learning

METHOD

This research is a Classroom Action Research (PTK), which uses Arikunto's theory:

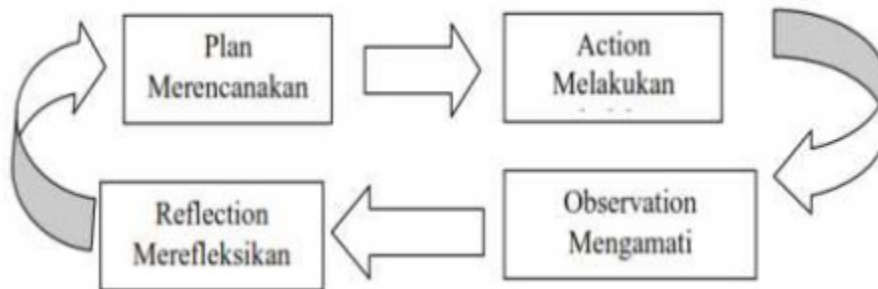


Figure 1. Class Action Research Cycle

This classroom action research is carried out in the form of 2 cycles. Researchers are trying to find a problem solving the learning process of students' understanding of learning English. This is important to implement because it is related to the research to be carried out.

This research activity was implemented in class X IPS-2 of SMAN 3 Pangkalan Bun for the 2021/2022 academic year. The reason for choosing the class is because the interest in learning and student learning outcomes in English subjects still show low percentage results.

This research will take technical data analysis by percentage method. Qualitative data are obtained through observation during the action using observation sheets. Meanwhile, quantitative data is obtained from a learning outcomes test, producing a score on English learning outcomes in recount text material.

Each cycle of learning activities is declared successful if there is a change in the process shown by an increase in interest in learning and English learning outcomes of class X social studies-2 students. Improvement of results can be known by knowing the differences in learning outcomes of the research subjects after being given the forms of assignments or tests. This research is said to be successful if the test score of student learning outcomes increases and students with a KKM (Minimum Completion Criteria) score of ≥ 73 reach a minimum of 75% of all class X IPS-2 students of SMAN 3 Pangkalan Bun. In Technical data analysis

RESULT

The results of interest in learning in Pre-Cycle, Cycle 1, and Cycle 2 are as follows:

Pre-cycle Learning Outcomes of Class X-IPS 2 Students of SMAN 3 Pangkalan Bun Academic Year 2021/2022

Table 1. Results on pre-action (initial conditions)

No	Students Name	Gender	Scores	Description
1	Ahmad Damar Al Azis	Male	50	Incomplete
2	Ahmad Dida Saputra	Male	55	Incomplete
3	Aqila Ayu Luthfianingrum	Female	75	Complete

No	Students Name	Gender	Scores	Description
4	Aventy Ghefira Rosardi	Female	80	Complete
5	Azzahra Kiranafayza	Female	75	Complete
6	Clara Ayuningtyas Loy Putri	Female	75	Complete
7	Danish Dwi Ardhani	Male	60	Incomplete
8	Fadel Muhamad	Male	55	Incomplete
9	I Putu Sheva Ananda Hary Putra	Male	75	Complete
10	Kurnia Nur Azizah	Female	70	Incomplete
11	M. Diva Pratama Saputra	Male	75	Complete
12	May Artika Putri	Female	80	Complete
13	Merlinda Sari	Female	70	Incomplete
14	Muhammad Noor Ikhsan	Male	75	Complete
15	Muhammad Rafi Arroyyan	Male	70	Incomplete
16	Muhammad Ramadanny	Male	75	Complete
17	Nabilla Rafa Khaerunnisa	Female	70	Incomplete
18	Naysa Tri Anggaraini	Female	70	Incomplete
19	Ni Putu Ayu Sawitri	Female	75	Complete
20	Nor Iksan	Male	75	Complete
21	Petrus Dawa Sema Rasi Wangge	Male	55	Incomplete
22	Raffael Surya Irawan	Male	50	Complete
23	Ragil Hariyono	Male	80	Complete
24	Rakha Aryasuta	Male	70	Incomplete
25	Rava Aditiya	Male	55	Incomplete
26	Ressa Rinda Riduan	Female	75	Complete
27	Syhakira Diana Putri	Female	75	Complete
28	Tiara	Female	70	Incomplete
29	Tri Nur Islami	Female	70	Incomplete
30	Wiji Ananda Putri	Female	85	Complete
31	Yolanda Amellia Elkenans	Female	75	Complete
32	Veren	Female	80	Complete
	Total		2245	
	Average		70.15	

Table 2. Percentage of Pre-cycle Completion

No	Category	Number of Students	Percentage (%)
1	Complete ≥ 73	18	56
2	Incomplete <73	14	44
	Total	32 Students	100



Figure 2. Pre-cycle Learning Outcomes of Class X-IPS 2 Students of SMAN 3 Pangkalan Bun Academic Year 2021/2022

Based on table 2 the percentage of Pre-cycle learning completion for class X-IPS 2 SMAN 3 Pangkalan Bun in the odd semester of the 2021/2022 academic year, it shows that student learning outcomes in Pre-cycle, namely the conditions before being given action, which not been completed with a score below KKM 73 as many as 18 students or 56% with an average class score of 70.15.

Results on Cycle 1

Learning Outcomes of Phase I of Class X-IPS 2 Students of SMAN 3 Pangkalan Bun Academic Year 2021/2022

Table 3. Results on Cycle 1

No	Students Name	Gender	Scores	Description
1	Ahmad Damar Al Azis	Male	60	Incomplete
2	Ahmad Dida Saputra	Male	65	Incomplete
3	Aqila Ayu Luthfianingrum	Female	80	Complete
4	Aventy Ghefira Rosardi	Female	85	Complete
5	Azzahra Kiranafayza	Female	80	Complete
6	Clara Ayuningtyas Loy Putri	Female	80	Complete
7	Danish Dwi Ardhani	Male	65	Incomplete
8	Fadel Muhamad	Male	60	Incomplete
9	I Putu Sheva Ananda Hary Putra	Male	80	Complete
10	Kurnia Nur Azizah	Female	70	Incomplete
11	M. Diva Pratama Saputra	Male	80	Complete

No	Students Name	Gender	Scores	Description
12	May Artika Putri	Female	85	Complete
13	Merlinda Sari	Female	75	Complete
14	Muhammad Noor Ikhsan	Male	80	Complete
15	Muhammad Rafi Arroyyan	Male	75	Complete
16	Muhammad Ramadanny	Male	80	Complete
17	Nabilla Rafa Khaerunnisa	Female	75	Complete
18	Naysa Tri Anggaraini	Female	70	Incomplete
19	Ni Putu Ayu Sawitri	Female	80	Complete
20	Nor Iksan	Male	80	Complete
21	Petrus Dawa Sema Rasi Wangge	Male	65	Incomplete
22	Raffael Surya Irawan	Male	60	Complete
23	Ragil Hariyono	Male	85	Complete
24	Rakha Aryasuta	Male	75	Complete
25	Rava Aditiya	Male	60	Incomplete
26	Ressa Rinda Riduan	Female	80	Complete
27	Syhakira Diana Putri	Female	75	Complete
28	Tiara	Female	75	Complete
29	Tri Nur Islami	Female	70	Incomplete
30	Wiji Ananda Putri	Female	90	Complete
31	Yolanda Amellia Elkenans	Female	80	Complete
32	Veren	Female	85	Complete
Total			2405	
Average			75.15	

Table 4. Percentage of Cycle 1 Completion

No	Category	Number of Students	Percentage (%)
1	Complete ≥ 73	23	72
2	Incomplete <73	9	28
Total		32	100%

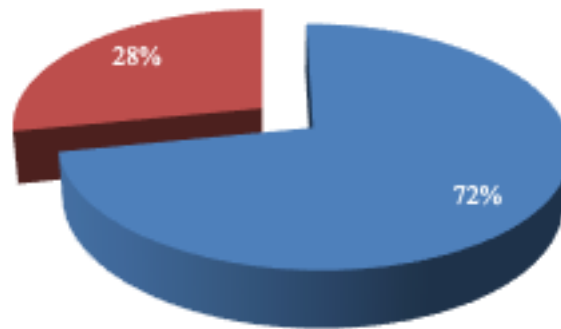


Figure 3. Learning Outcomes of Phase I of Class X-IPS 2 Students of SMAN 3 Pangkalan Bun Academic Year 2021/2022

Based on the table above shows that, in the first cycle that was carried out, results were obtained that from 32 students of Class X IPS 2 SMAN 3 Pangkalan Bun, there were 23 students, or 72%, who had achieved a KKM score of 73 or passed, while as many as nine students or 28% did not achieve a KKM score of 73 or did not pass with an average class score of 75.15

Results on Cycle 2

Learning Outcomes of Cycle Stage 2 Students of Class X-IPS 2 SMAN 3 Pangkalan Bun Academic Year 2021/2022

Table 5. Results on Cycle 2

No	Students Name	Gender	Scores	Description
1	Ahmad Damar Al Azis	Male	75	Complete
2	Ahmad Dida Saputra	Male	75	Complete
3	Aqila Ayu Luthfianingrum	Female	85	Complete
4	Aventy Ghefira Rosardi	Female	90	Complete
5	Azzahra Kiranafayza	Female	85	Complete
6	Clara Ayuningtyas Loy Putri	Female	85	Complete
7	Danish Dwi Ardhani	Male	75	Complete
8	Fadel Muhamad	Male	75	Complete
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12	May Artika Putri	Female	90	Complete
13	Merlinda Sari	Female	80	Complete
14	Muhammad Noor Ikhsan	Male	85	Complete
15	Muhammad Rafi Arroyyan	Male	80	Complete

No	Students Name	Gender	Scores	Description
16	Muhammad Ramadanny	Male	85	Complete
17	Nabilla Rafa Khaerunnisa	Female	80	Complete
18	Naysa Tri Anggaraini	Female	80	Complete
19	Ni Putu Ayu Sawitri	Female	85	Complete
20	Nor Iksan	Male	85	Complete
21	Petrus Dawa Sema Rasi Wangge	Male	70	Incomplete
22	Raffael Surya Irawan	Male	75	Complete
23	Ragil Hariyono	Male	90	Complete
24	Rakha Aryasuta	Male	80	Complete
25	Rava Aditiya	Male	70	Incomplete
26	Ressa Rinda Riduan	Female	85	Complete
27	Syhakira Diana Putri	Female	80	Complete
28	Tiara	Female	80	Complete
29	Tri Nur Islami	Female	80	Complete
30	Wiji Ananda Putri	Female	90	Complete
31	Yolanda Amellia Elkenans	Female	85	Complete
32	Veren	Female	90	Complete
Total			2620	
Average			81.87	

Table 6. Percentage of Cycle II Completion

No	Category	Number of students	Percentage(%)
1	Complete ≥ 73	30	94
2	Incomplete <73	2	6
Total		32	100%

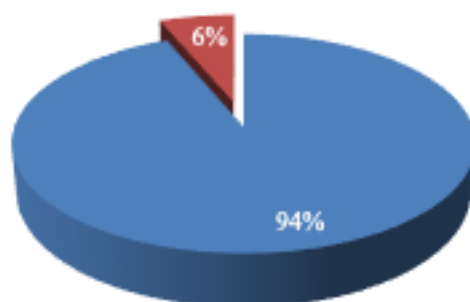


Figure 4. Learning Outcomes of Cycle Stage 2 Students of Class X-IPS 2 SMAN 3 Pangkalan Bun Academic Year 2021/2022

Based on the table above shows that, in the second cycle that was carried out, learning results were obtained that out of 32 students of Class X IPS 2 SMAN 3 Pangkalan Bun, there were 30 students, or 94%, who had achieved a KKM score of 73 or passed. In the comparison, as many as two students, or 6%, did not achieve KKM score of 73 or did not pass with an average score of 81.87. The acquisition of learning outcomes in cycle II shows an increase compared to learning outcomes at the stage of a cycle I

Results of Observation of Student Learning Interests

Results of Observation of Student Learning Interest in Cycle I

Table 7. Cycle I

No	Observed aspects	Scores				
		1	2	3	4	5
1	Students' ability to focus on the learning carried out		√			
2	The motivation of students to take part in learning by learning steps using the application of the mind mapping method assisted by the Zoom application			√		
3	Students' ability to listen to and understand explanations and learning objectives			√		
4	Enthusiastic in preparing to take part in learning using the application of the mind mapping method assisted by the Zoom application		√			
5	Focus on following the learning process in the Zoom Meeting room		√			
6	Actively engage in discussions with friends and teachers in completing mind-mapping tasks		√			
7	The ability of students to complete tasks on time				√	
8	Students' courage to ask questions about material that is lacking/unclear					
9	Students' ability to answer questions mentioned by the teacher				√	
10	Students' ability to deduce the material already learned			√		
Total				21		
Average				2.1		
Percentage %				42%		

Information:

Score 0.1 – 1.74 = Less

Score 1.75 – 2.54 = Sufficient

Score 2.55 – 3.50 = Good

Score 3.51 – 4.00 = Excellent

Based on the results of actions in the first cycle of class X IPS 2 students of SMAN 3 Pangkalan Bun, it shows that students' interest in learning with a score of 21 obtained an average score of 2.1 with a percentage of 42%, which is included in the Sufficient category.

Table 8. Results of Student Interest in Learning in Cycle II

No	Observed aspects	Scores			
		1	2	3	4
1	Students' ability to focus on the learning carried out				√
2	The motivation of students to take part in learning by learning steps using the application of the mind mapping method assisted by the Zoom application				√
3	Students' ability to listen to and understand explanations and learning objectives				√
4	Enthusiastic in preparing to take part in learning using the application of the mind mapping method assisted by the Zoom application				√
5	Focus on following the learning process in the Zoom Meeting room				√
6	Actively engage in discussions with friends and teachers in completing mind-mapping tasks				√
7	The ability of students to complete tasks on time			√	
8	Students' courage to ask questions about material that is lacking/unclear			√	
9	Students' ability to answer questions mentioned by the teacher				√
10	Students' ability to deduce the material already learned				√
Total				38	
Average				3,8	
Percentage %				95	

Information:

Score 0.1 – 1.74 = Less

Score 1.75 – 2.54 = Sufficient

Score 2.55 – 3.50 = Good

Score 3.51 – 4.00 = Excellent

Assessment Formula: (Ministry of National Education, 2002:19)

$$\text{Scoring} = \frac{\text{Gain Score}}{\text{Ideal Score}} \times 100\% = \text{Final Score}$$

Based on the table above, can be known about student activities in cycle II. The number of accumulated values is 38, with an average of 3.8. When pressed, it reaches 95%. Average grades and their percentages show excellent categories

DISCUSSION

It is necessary to choose the right learning method to achieve learning objectives. The Method is the path we must take to provide an understanding to students about the lesson they are learning. The Method is very influential in teaching. The Method of grades can be good or bad, and the Method also learning can be successful or failing; most teachers who master the material can fail in learning because he does not get the right Method to understand students.

And from the results of the study showed that students' English learning outcomes increased, namely from the first cycle of 32 students of Class X IPS 2 SMAN 3 Pangkalan Bun, there were 23 students, or 72%, who had achieved a KKM score of 73 with an average class score of 75.15. In cycle II, of the 32 students of Class X IPS 2 SMAN 3 Pangkalan Bun, 30 students, or 94%, had achieved a KKM score of 73 with an average score of 81.87.

CONCLUSIONS

Conclusion

The study results show that the Zoom Application-Assisted Mind Mapping Method can improve student learning outcomes and interest in learning English subjects, Recount Text material for class X IPS 2 students of SMAN 3 Pangkalan Bun for the 2021/2022 Academic Year:

1. Student learning outcomes in the pre-cycle stage, Cycle I, and Cycle II experienced increased learning outcomes. In the pre-cycle stage of 32 students of class X IPS 2, only 18 students (56%) passed or achieved KKM scores. In comparison, students who did not pass or did not achieve KKM scores were 14 or 44%, with an average score of 70.15. Furthermore, in cycle I of 32 Class X IPS 2 SMAN 3 Pangkalan Bun, 23 students, or 72%, had achieved KKM score of 73 or passed. In comparison, as many as 9 students, or 28%, did not achieve a KKM score of 73 or did not graduate with an average class score of 75.15. In cycle II of 32 students of Class X IPS 2 SMAN 3 Pangkalan Bun, there were 30 students, or 94%, who had achieved a KKM score of 73 or passed, while as many as 2 students, or 6%, did not achieve a KKM score of 73 or did not pass with an average score of 81.87.
2. Students' interest in learning increases every cycle; this is shown by the observation of the Learning Interest of class X IPS 2 students of SMAN 3 Pangkalan Bun, which increases in cycles I and II. In the first cycle of Learning Interest, students obtained a score of 21 with an average score of 2.1 with a percentage of scores of 42%, which was included in the Sufficient category. In cycle II the student's Learning Interest again increased, with the number of accumulated grades being 38, with an average score of 3.8. If it is concentrated, it reaches 95%. The average score and its percentage indicate the Excellent category.

Suggestion

Based on the results of the study, it can be recommended:

1. Teachers are expected to develop creativity in learning, especially in e-learning. In addition, teachers can further motivate students to be more active so that students and teachers can establish good communication through online learning media.
2. The use of mind mapping methods, assisted by the Zoom application, needs to be developed and applied to other materials so that they can improve and maximize learning outcomes.
3. There needs to be further research as a development of this research.

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