

Differences of Student Learning Results before and after Using the Picture and Picture Learning Model through Audio-Visual Media

Siti Halimah*, Mahmu'ddin, and Desi Wahyuni

Economic Education Department, STKIP Muhammadiyah Sampit, Indonesia

*siti_halimah@stkipmsampit.ac.id

Abstract. The purpose of this study was to determine whether there is a difference in student learning outcomes before and after using the learning model picture and picture via audio-visual media in social studies Integrated Class VII in SMP Negeri 2 Sampit in academic year 2015/2016. The population in this study were all seventh-grade students in Junior High School 2 Sampit in the academic year 2015/2016. Samples were taken by simple random sampling of several 38 students in the class VII space B. Data analysis techniques used in the form of two samples paired test (Paired Sample T-Test). Based on the results of data analysis showed a difference in student learning outcomes There before and after using the learning model picture and picture via audio-visual media on Integrated Social Science subjects in class VII SMP Negeri 2 Sampit in academic year 2015/2016 with the result $-19.290 t_{test} < t_{table} 2.02619$. This is reinforced by the results of the analysis test Paired Sample T-Test which describes the average value of student learning outcomes before treatment and after treatment amounted to 47.18 at 86.74. It means that there are differences in the average student learning outcomes before and after using the learning model picture and picture via audio-visual media on Integrated Social Science subjects in class VII SMP Negeri 2 Sampit in the academic year 2015/2016.

1. Introduction

In this globalization era, the development of science and technology that is accompanied by social and cultural developments that take place rapidly today, the task and role of teachers from day to day is getting heavier along with the development of knowledge and technology. Teachers as the main components of the world of education are required to be able to compensate even beyond the development of knowledge and technology that develops in the community.

Learning models can be interpreted as systematic procedures for organizing learning experiences to achieve learning objectives. A Learning Model that relies on images as the media in the learning process. The images are a major factor in the learning process and will be more effective when coupled with visual audio media. These images are a key factor in the learning process and will be more effective when coupled with the use of audiovisual media.

Audio-visual Media can overcome the limitations of the experience that learners have and can exceed classroom boundaries. Through the proper use of audiovisual media, all of those objects can be presented to learners by involving the senses of vision and auditory senses to stimulate students to think critically. Also, the concept of knowledge learned will move on thinking skills, and by itself will encourage students to obtain good learning outcomes. While the problems that always exist in the



world of education is how a learning process is designed and lowered in practice because there are still some teachers who are less prepared in the preparation to learn to teach, such as the use of methods Which is less varied, it is proven by many teachers who implement methods of learning that are still conventional such as the use of lecture methods. So students ' knowledge is limited only to the material provided by the teacher of the lesson material and affects their learning outcomes.

Based on the explanation above for the problem in this research is whether there is a difference in student learning outcomes before and after using the picture and picture Learning model through audiovisual media in the classroom IPS integrated class VII in SMP Negeri 2 Sampit yearlesson 2015/2016?

For students, The learning model applied by the teacher can give something new that can improve their learning activities in the school. Teachers can analyze behavioral changes that accompany the increase in students ' learning outcomes before and after using the Picture And Picture learning model through Audio-Visual Media. As a cornerstone for further research that has to do with implementing learning models to improve student learning outcomes.

This research is expected to provide input to other researchers to develop other similar research. Divide the library as a reference library for educational research, especially related to the implementation of the learning model to improve student learning outcomes.

2. The Resultof Learning

Did H. Nashar [1] The Result of Learning is the ability that students obtain after going through learning activities. Students ' learning results are influenced by a wide range of factors from both internal and external. The learning outcomes of the students are essentially the results of the interaction between the various factors. In this study, the study results were examined in the form of cognitive outcomes [2]. Factors that influence the Result of learning students can we distinguish into three kinds, namely the Internal factors of students (the physiological factor and psychological factors), the external factors (social and nonsocial Environment), and the learning approach factor [3].

3. Picture and Picture

Did Hidayati (2014: 7) picture and picture learning model is a learning model that uses pictures and is paired/sorted into a logical sequence [4] picture and picture learning model is a model that uses pictures and pairs or sorted into logical shapes and sequences. This learning has an active, innovative, creative, and fun trait. This study relies on images as a medium in the process of defthe. These images are an important factor in the learning process. So before the learning process, the teacher has prepared the image that will be displayed either in the form of cards or in the form of charts in large sizes. Or if in school already use ICT (Information and communication technologies) in using PowerPoint or other software. In this way, students are expected to think logically so that learning becomes meaningful.

4. Media audiovisual

Audio Visual Media is a sound media combined with an image element so that it can be enjoyed by five senses, such as video footage of various sizes, movies, slides and can also to perform scriptwriter and storyboard

5. Relevant Research

The previous research that can be used as a reference, including research conducted by [5] entitled "Effect of implementation of Model of Picture And Picture Learning of student learning outcomes in IPS subjects (history) in class VIII SMP Negeri 2 South Pemulutan "from the analysis of the results can be concluded that there is an influence of the application of learning models of the picture and picture of students ' learning outcomes.

6. Research hypothesis

Based on the explanation that has been submitted, it is a hypothesized research that is a temporary answer to the problem formulated, that is, there are differences in student learning outcomes before and after using the picture and learning model Picture through audio Media visual on the subjects of IPS integrated class VII at SMP Negeri 2 Sampit Year lesson 2015/2016.

7. Metode Research

The study was held on 01 August 2015 until 30 November 2015 at SMP Negeri 2 Sampit. The type of research used is experimental research. In this case, researchers use Pre-experimental Design because this design has not been real experimentation it can occur, due to the absence of a control variable, and the sample is not random.

The population in this study is a grade VII student at SMP Negeri 2 Sampit academic year 2015/2016, amounting to 267 students. This research uses simple random sampling techniques. The sample amounted to 38 students. As for the research variables this study results (Y) and the Learning Model (Y).

The data collection techniques used in this study are tests and documentation. A question about the test is tested using the LATEST program to determine the different power, difficulty level, booker quality, as well as the problem coloration and total score. Data analysis using statistical techniques with the help of the Statistical Product and Service Solution (SPSS).

8. Research and Discussion Results

Based on the results of the analysis of students' learning outcomes before and after the treatment of the learning model of picture and picture through audiovisual media, it can be concluded that there are different student learning outcomes before and after Using picture and picture Learning model through audiovisual media on the subject of IPS integrated class VII at SMP Negeri 2 Sampit Year lesson 2015/2016.

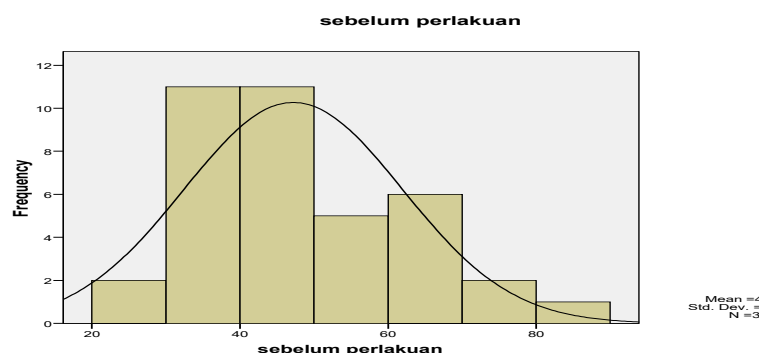


Figure 1. Histogram of values before treatment

Based on the above histogram indicates that students of class VII room B before being given the treatment to achieve a value of 20 2 students, a value of 30 as much as 11 students, a value of 40 as many as 11 students, a value of 60 as many as 6 students, 70 value 2 students, and a value of 80 . After treatment based on the histogram above shows that students of class VII room B After treatment reached a value of 70 as many as 5 students, a value of 80 as many as 13 students, a value of 90 to 13 students, and a value of 100 as many as 7 students.

This result was reinforced with the analysis test results of the Paired Sample T-Test which displays the average value of students' learning results before the treatment of 51.74 and after treatment of 86.95.

Tabel 1. Uji hipotesis paired samples satatistica

		Mean	N	Std. Deviation	Std. Error
Pair 1	Sebelum	51,74	38	16,152	2,620
	Sesudah	86,95	38	8,596	1,394

This means that there is a difference in the average student learning outcomes before and after using the picture and picture learning model through a significant audio-visual medium. Thus, the learning model of picture and picture through audio visual media is effectively used in integrated IPS subjects. This is in line with research conducted by the addition of research conducted by [5] research conducted by [6] from the results of the analysis can be concluded that there is a significant influence of learning outcomes between classes Experiments and control classes using audiovisual media.

Did Joyce [7] State that each learning model directs us into designing learning to help learners in such a way that student learning objectives include learning outcomes. Did Trianto [7] mastering several models of learning, then a teacher and lecturer will feel the ease in the implementation of learning in class so that the purpose of learning, namely the learning outcomes to be achieved in the learning process can be achieved and complete as expected. While the use of audiovisual media when designed well, such as a combination of slides and tape can bring a dramatic impact and can improve learning outcomes [8].

9. Conclusion

Based on the results of the study and discussion, there can be inferred students' learning outcomes before and after using picture and picture learning models through audiovisual media. This result was reinforced with the results of the analysis test Paired Sample T-Test which displays the average value of students' learning results before and after using the learning model. Thus the model of picture and picture learning through audio-visual media is effectively used.

As for the advice that can be given by researchers to further research perfection similar, that is for students learning models applied by teachers can give something new to improve learning activities in the school. Teachers can analyze behavioral changes that accompany the increase in student outcomes by using the learning model. Although teachers have innovated in the learning process by applying learning models, the final results are still determined by the students' abilities in receiving lessons given by the teacher.

Researchers realized that this study did not escape the various limitations that existed among the limitations of research time and delay in analyses of the data.

References

- [1] Setyowati, Pengaruh Motivasi Belajar Terhadap Hasil Belajar Siswa Kelas VII SMPN 13 Semarang, Universitas Negeri Semarang, Semarang, 2007.
- [2] M. Syah, Psikologi Belajar, Jakarta : PT Raja Grafindo Persada, 2006.
- [3] Hidayati, Penerapan Metode Pembelajaran Picture And Picture untuk Meningkatkan Hasil Belajar IPA Siswa Kelas VI MIN Ngawen Gunung Kidul Yogyakarta," Universitas Jember, Jember, 2014.
- [4] S. Agus, Cooperative Learning Teori & Aplikasi PAIKEM, Yogyakarta : Pustaka Pelajar, 2009.
- [5] E. Septawuni, Penerapan Model Pembelajaran Picture and Picture Terhadap hasil Belajar Siswa pada Mata Pelajaran IPS di Kelas VII SMPN 2 Pamulutan Selatan, Palembang : Universitas Sriwijaya Palembang , 2014.
- [6] Maria, Pengaruh Media Pembelajaran Berbasis Audio Visual dengan Menggunakan Diskusi Kelompok Terhadap Motivasi dan Hasil Belajar Siswa Kelas VII SMP Negeri I Sukorambi Jember, Universitas Jember, Jember, 2012.

- [7] Trianto, Model-Model Pembelajaran Inovatif Berorientasi Konstruktivistik, Jakarta : Prestasi Pustaka , 2007.
- [8] A. Arsyad, Media Pembelajaran, Jakarta : Rineka Cipta, 2014.