

Application Of Pop Up Book Mathematics Learning Media For Class 2 Students At MI Al Mukarromah Kebumen

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Abstract

This research aims to describe the Pop Up Book media to determine students' responses and understanding in the learning process. This research used a descriptive qualitative method with the research subjects being class 2 students at MI Al Mukarromah Kebumen Odd Semester for the 2023/2024 academic year. Data collection procedures were carried out through observation, interviews and documentation. Technical data analysis is carried out in the stages of data reduction, data presentation and verification (drawing conclusions). The results of the research show that there is a response in the learning process of students, especially class 2, that students have a good response and understanding, such as students asking about the material to the teacher and vice versa, students can answer questions given by the teacher, so it can be said that students have good response and good understanding during the learning process.

Introduction

Learning is anything in the form of activities designed by educators for students to be able to learn an ability through the design, implementation and evaluation stages in the learning process (Laefudin, 2017). Meaningful learning will make students remember the material that has been taught longer. To make learning meaningful for students, learning media is needed that can attract students' enthusiasm for learning.

Learning media are tools used to make it easier for teachers to convey material. Learning media is media used in the learning process and functions as a channel for messages between teachers and students so that learning objectives can be achieved (Mais, 2018). Learning media is a communication tool used in the teaching and learning process to convey information in the form of material to be taught by the teacher so that students will be more interested in participating in learning (Kustiawan, 2016). Learning media are tools and materials used to streamline and make the teaching and learning process effective in order to achieve learning objectives (Satrianawati, 2018). Learning media in this research are tools used by teachers in the form of software and hardware which function to facilitate the delivery of knowledge material, facts and concepts to students so that learning objectives are achieved. Pop Up Book Learning Media is a media that can be used in mathematics subjects.

Mathematics is a subject that plays a role in expanding knowledge. Mathematics is one of the subjects given to students from elementary to tertiary education level (Munadzifah et al., 2021). Mathematics subjects have a very important role for every student and in everyday life. In fact, mathematics can be said to be the heart of every science, which has enormous benefits, especially in science and technology. However, there are still many students who think that mathematics is difficult and a frightening prospect. This is because mathematics is not a concrete object, the presence of symbols or numbers in mathematics lessons makes students dislike learning mathematics. And there are several other factors, including low motivation and attention of students during mathematics learning, the small number of students who actively ask questions about the material taught by the teacher, students only using their senses of sight and hearing so that to understand abstract concepts students have difficulty and students learn through remembering facts, not through actions. Students who consider mathematics to be a difficult subject and have a negative view of mathematics generally have a negative impact on ongoing learning motivation. Apart from that, the mathematics learning process also sometimes only uses simple media. Learning equipment that is still minimal, a family environment that is less supportive, and a community environment that tends to be busy and the average level of public education is still low are also factors that cause students to have difficulty learning mathematics. There are even those who only do conventional-based learning. Related to this, mathematics learning becomes meaningless for students and students' understanding of mathematical concepts becomes weak. Meanwhile, he revealed that understanding concepts is very important in mathematics learning to support students' abilities in understanding further mathematics material, such as in solving problems. In fact, there are many media that can be used for learning mathematics, one of which is Pop Up Book media.

Pop Up Book media has a special attraction for students because it is able to present visualizations with shapes created by folding, moving and appearing, thereby providing surprise and awe for students when they open each page. Pop Up Books are books that have the potential for movement and interaction through the use of paper mechanisms such as folds, slides, rolls and wheels. Pop Up Books contain pieces of paper that appear or move when opened and fully fold when the book is closed, as well as displays that are two or three dimensional. Pop-up books can be adapted to the teaching material you want to convey. Therefore, the role of this media is appropriate to apply to students during learning, because it can attract students to study well. The Pop Up Book media used in mathematics learning can help students understand the material about plane shapes, namely the types and formulas for the perimeter and area of triangles and quadrilaterals. Each flat shape has a different formula, therefore students must understand the

formula for the perimeter and area of a flat shape using Pop Up Book media after which students can easily work on the questions.

Based on opportunities and analysis regarding the potential for using Pop Up Books to be applied to learning in class 2 at MI Al Mukarromah Kebumen, this learning media can be a solution to increase students' responses and understanding of flat shapes. It is also hoped that the Pop Up Book media being developed can be a scientific contribution that can be applied sustainably by the school.

Methods

The form of research carried out is qualitative research. Then the method used in this research is descriptive method. The descriptive method is a method of collecting data through observation, interviews and documentation. This research was conducted at MI Al Mukarromah Kebumen and the data source used in this research was student sources (as the main data), namely Ali's 2nd grade students at MI Al Mukarromah Kebumen. Meanwhile, data collection uses observation, interviews and documentation methods. Things that were observed included students' responses and understanding after teaching and learning activities using Pop Up Book media. And documentation as a source of data is in the form of photos of teaching and learning activities in class, the contents of the Pop Up Book and its cover which relate to the research material.

Result

The Based on research findings that have been conducted regarding students' responses and understanding after using Pop Up Book media in classroom learning activities. The following are the detailed results of observation, interview and documentation activities, regarding student responses and understanding.

Observation

Observations found that students had different responses during the learning process using Pop Up Books. There are students who have very good responses and understanding, and are quite good during the learning process. Students who can respond directly while learning is being carried out, some ask questions but some don't.

The following is documentation of the results of observations of the application of Pop Up Book media to determine students' responses and understanding of Flat Figures in classroom learning.



Figure 1. Media Pop Up Book Flat Build material



Figure 2. Students are enthusiastic about observing Pop Up Book media

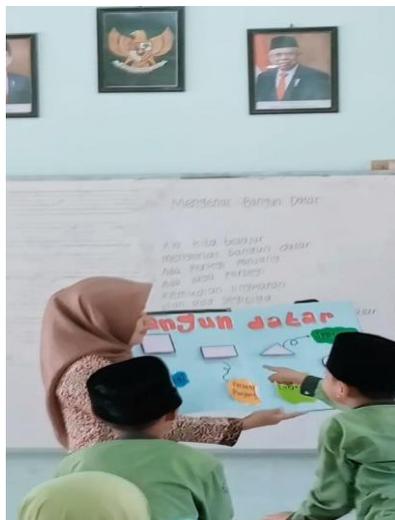


Figure 3. Students are doing question and answer activities with the teacher

Interview

Interviews were conducted with the head of class 2 and other friends to find out students' responses and understanding in previous learning. The results of the interviews strengthen the results of observations regarding students' responses and understanding. The results of the interview with the head of class 2 and other students are as follows: students had poor responses before, but after learning using Pop Up Book media, mathematics learning about Flat Figures became better, in fact, students often asked/asked questions, very enthusiastic about observing and finding out about the flat material contained in the Pop Up Book media that is being studied.

Discussion

Pop Up Book media is a book that has 3D illustrations that can be pulled or moved. Pop Up Book media also has part of the image that appears so it looks more attractive. The creation of this media refers to the introduction of Flat Figures and to help children learn and remember them. However, in practice the learning carried out involves little interaction between teachers and students and little use of creative learning resources, so that learning for children becomes monotonous and boring. This has given rise to a new innovation, namely the creation of Pop Up Book learning media which is made attractive and can support teachers in the learning process.

The media used is one of the elements that influences whether a learning process is good or not. Education is a very important topic, but what is most important are the teaching strategies and media used to help students learn and internalize concepts. Based on research findings, a child

will easily understand the topics being taught if the learning environment is conducive to their absorption capacity. Pop Up Book Learning Media is used to stimulate curiosity in students, especially class 2 MI Al Mukarromah Kebumen.

The learning process at MI Al Mukarromah Kebumen becomes more interesting and enjoyable with the use of Pop Up Book media, and children gain knowledge of the learning content delivered by the teacher in class by paying more attention or showing greater enthusiasm.

Conclusion

Based on the results of research and discussions that have been carried out regarding students' responses and understanding in learning flat building material using Pop Up Book media at MI AL Mukarromah Kebumen, it can be concluded that the results of research conducted on class 2 Ali students at MI Al Mukarromah Kebumen show that each student had a good response such as enthusiasm in observing the media, then students asked questions. So it can be concluded that the students' response and understanding after using Pop Up Book media in the learning process carried out in class 2 of Ali MI Al Mukarromah Kebumen is categorized as good.

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