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MODIFICATION OF BADMINTON LEARNING MEDIA USING TRADITIONAL TOOLS

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Abstract. The research method used in this action research is the classroom action research method. This method was chosen because it aims to improve the badminton learning process through modifying learning media using traditional tools. The action research method consists of several main stages, namely problem identification, action planning, action implementation, observation, and reflection. This study is based on the results of a survey and observation at SMK Islam Bustanul Ulum Pakusari, the lack of racket and shuttlecock media makes learning less effective and efficient. Many students do not have rackets and shuttlecocks when learning badminton. This study aims to find out how to modify rackets and shuttlecocks made of wood, boards, newspapers and rope as a solution for badminton learning. The method used defines, interprets, explains a situation. The learning process using modified racket and shuttlecock media is very helpful in overcoming the lack of learning media at SMK Islam Bustanul Ulum.

Keywords: modification; learning media; badminton; racket; shuttlecock



INTRODUCTION

Physical education is one of the lessons provided in junior high schools as a complement to the existing learning process (Taqwim, 2020). Certain countries, such as Indonesia, have formed so many different badminton clubs, ranging from city, sub-district, local, regular and public levels (Hasan and Prasetyo 2022). Badminton is one of the most popular sports in Indonesia from the past until now. For the Indonesian people, badminton is a sport for all levels of society, because it can be played by children, adults, men or women. It is good for recreation and entertainment, maintaining health and fitness, or to achieve achievements (Putra, 2016).

Badminton is a sport that is often played by two pairs of badminton players or athletes or one on one, each player playing against each other (Setiawan, Ahmad, and Ulpi 2023). The aim of the game of badminton or badminton is simple: to score as many points as possible on the opponent's court area (Aisyah 2021). Modification in general can be interpreted as an effort to change or adjust. However, modification is specifically an effort made to create and make something new and interesting without eliminating the main elements of what is being modified. Equipment modification is the most frequent modification made by a physical education teacher in the learning process (Budi, 2021). Modifying learning media has the advantages of increasing mastery of basic techniques, improving skills, and fostering students' interest and motivation to learn (Firmana, 2017).

In the learning process, communication occurs between teachers and students. The teacher acts as the sender of information while the student acts as the recipient of information. This process will work well if both of them run smoothly, where the teacher is able to convey information well to students and students have the ability to receive the information well. To perfect communication between the giver and receiver of information in order to create effective communication, communication tools or media are needed (Hasan, 2021). Learning media is essentially a means of conveying information from the communicator (teacher) to the communicant (student) as the recipient. If the learning environment is designed systematically, it will be able to achieve learning objectives optimally (Saleh, 2023).

Physical education and health learning media include sports facilities and infrastructure at school. The lack of physical education facilities and infrastructure owned

by schools requires physical education teachers to be more creative in empowering and optimizing the use of existing facilities and infrastructure (Kurniasih, 2017).

In addition, the lack of facilities in schools is one of the obstacles in the learning process, so one way to overcome this problem is to modify badminton learning tools such as rackets that are made easier by modifying them with boards (toktak) and shuttlecocks that are made easier by modifying them with balloons. Colored shuttlecock learning media are indeed needed and can increase students' learning motivation in badminton learning materials (Yanti, 2020). Bokortasko is an abbreviation of tailed ball and newspaper. Modification of the bokortasko learning aid is a form of learning media designed by researchers using tailed balls made by utilizing newspaper balls tied using colored raffia rope to form a tailed ball (Bambang, 2019). This study aims to understand and overcome inadequate learning media at SMK IBU Pakusari.

METHOD

Action research or action research is one form of research design, in action research researchers describe, interpret and explain a situation at the same time as making changes or interventions with the aim of improvement or participation. Action research in the traditional view is a problem-solving research framework, where there is collaboration between researchers and clients in achieving goals (Yono, 2020).

The research method used in this action research is the classroom action research method. This method was chosen because it aims to improve the badminton learning process through modifying learning media using traditional tools. The action research method consists of several main stages, namely problem identification, action planning, action implementation, observation, and reflection. The problem identification stage was carried out to identify students' difficulties in understanding basic badminton techniques using conventional media. Based on the results of this identification, action planning was carried out in the form of developing modified learning media using traditional tools such as rope, bamboo or coconut shells. This action was then carried out on certain groups of students to see its effect on badminton skills. During the implementation of the action, observations were made of the learning process and students' skills through observation, interviews and documentation. The data obtained is then analyzed and reflected on to evaluate the effectiveness of the modified learning media. If the results are not optimal,

then re-planning is carried out for the next cycle. This action research method uses a mixed approach which combines qualitative and quantitative data.

RESULTS AND DISCUSSION

The results of this study reveal that limited learning facilities, especially in Physical Education subjects such as badminton, are not always an obstacle to creating effective learning. One creative and practical solution is to modify learning aids, especially at SMK IBU PAKUSARI which faces the problem of a lack of learning media. The use of simple materials such as wooden boards and newspaper to make rackets and shuttlecocks not only reduces costs, but also involves students directly in the process of making learning tools. This approach is part of contextual learning, which is able to foster a sense of responsibility, creativity, and independence in students. Thus, students play an active role in learning, not just recipients of material.

In addition, the use of modified media has a positive impact on student creativity and participation. When they use homemade tools, a sense of ownership arises that strengthens their enthusiasm in participating in learning activities. This is in line with the constructivist approach, which emphasizes the importance of active involvement of students in the learning process. Learning becomes more meaningful because it not only conveys knowledge, but also fosters character and life skills.

This approach also supports education based on local potential and community culture, because the tools used are sourced from the surrounding environment. This shows that learning can still run optimally without relying on sophisticated and expensive facilities. This concept is very important in realizing fair and equitable education.

Table 1. Comparison Raket, Suttlecock and Toktak, Bokortasko

Media	Lack	Excess
Raket dan kock	The price is expensive	Better and more comfortable to wear
Toktak dan Bokortasko	Easily damaged	Easy to get and the price is chcap

From traditional tools to overcome badminton game infrastructure. Effective modifications are widely liked and enjoyed by children. Based on the results of

observations and trials, it was found that the modified media Toktak and Bokortasko have a number of advantages compared to Rackets and Shuttlecocks. The trial was conducted on students who took part in badminton learning using modified media. The success rate in carrying out badminton learning increased to a success percentage of 80% from the previous 10%. These results are evidence of the importance of modifying learning media in physical education to increase the effectiveness of learning.

CONCLUSION

The results of the study focused on the modification of badminton rackets and shuttlecocks, it can be concluded that the learning media at SMK Islam Bustanul Ulum is very lacking so that modifications to rackets and shuttlecocks are needed as learning media to overcome the lack of existing facilities or no badminton learning media at all, it is very suitable to use modifications using wood, boards, newspaper and rope because the costs incurred are not large or do not require costs. In addition to being a supporting tool, modifications to rackets and shuttlecocks are very good to use as learning media for underprivileged students.

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