# Role of Basketball Education in **Improving** Students' Motor Skills and Discipline

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## **Keywords:**

## Abstract

**Sports** education, basketball, motor skills, discipline.

Sports education, especially basketball, has a significant role in improving students' motor skills and discipline. This sport combines physical activity with character building, student such as teamwork and emotional control. However, its implementation in the school curriculum still faces various obstacles. This study aims to explore the role of basketball education in developing motor skills and building student discipline in elementary school. The results showed that basketball consistently improved students' body coordination, agility, and fine motor skills. In addition, basketball also builds disciplinary values through practice routines, emotional control, and adherence to the rules of the game. Supporting factors such as adequate facilities and quality training play an important role in maximizing their impact.



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#### INTRODUCTION

Sports education has an important role in the formation of students' motor skills and discipline (Arifin, 2017). Basketball, as a sport that combines speed, precision, and cooperation, offers many benefits for students' physical and mental development (Abrar & Fitroni, 2021). Basketball not only improves gross motor skills, such as coordination and agility, but it also teaches the importance of quick decision-making in dynamic situations.

Basketball Sports Education is one of the methods of physical education that aims not only to develop physical skills, but also mental and social skills of students. Through basketball training, students learn about the importance of teamwork, communication, and decision-making in dynamic situations. Research shows that modern strategy-based basketball learning, such as the application of technology in engineering and tactical analysis, is able to significantly improve the effectiveness of students' learning and skills (Slater & Kaur, 2024; Zhou, 2025). In teaching in schools, basketball is also

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used as a tool to introduce the values of sportsmanship, emotion management, and problem-solving that are relevant to real-world challenges (Hatefi, 2024).

Apart from being a physical education tool, basketball also plays an important role in shaping physical and mental health. Recent studies have found that regular exercise through basketball can significantly improve students' cardiorespiratory and motor endurance, especially among adolescents (Sha, 2025). In addition, basketball has also been shown to be effective in increasing student motivation to be active in sports activities, especially when teaching is tailored to individual interests and needs (Zhang, 2024). With the integration of basketball-based learning strategies and the teaching of life values, basketball education not only strengthens the physical aspects of students but also has a positive impact on their personality development.

Motor skills are the foundation of effective physical activity and have a significant impact on students' physical well-being. Previous research has shown that participation in sports such as basketball can consistently improve motor capacity, especially through exercises that focus on body control, balance, and hand-eye coordination (Zhou, 2025). In addition, these skills also support students in carrying out daily activities more efficiently.

In addition to the physical aspect, basketball also instills important disciplinary values. The process of practice and matches requires consistency, adherence to rules, and emotional control, all of which contribute to the formation of students' character (Isman et al., 2023). With a structured approach, this sport provides students with the opportunity to learn to manage time, improve teamwork, and strengthen work ethic.

However, although the benefits of basketball education have been widely recognized, its implementation in the school curriculum is often still less than optimal. Many schools do not have adequate facilities or structured training programs to support the development of students' motor skills and discipline through basketball (Yusfi & Solahuddin, 2020). Therefore, this study is important to explore the role of basketball education in more depth. There is an urgent need to integrate effective sports education in improving students' motor skills and discipline. With the increasing prevalence of sedentary lifestyles among children, sports education such as basketball can be an effective solution to improve students' physical and mental health (Pauweni, 2012).

Previous research has shown that basketball education has a significant positive impact on the development of students' motor skills (Potop et al., 2024). In addition, this sport is also recognized as able to improve students' disciplinary behavior through the consistent application of rules during training and matches (Lin, 2024). This study aims to complement the literature by emphasizing how the combination of these two aspects can be optimized in the context of school education.

This research aims to explore the role of basketball education in improving students' motor skills and discipline. The results of the research are expected to provide insight to educators and policymakers in integrating effective basketball programs into the educational curriculum.

#### **METHOD**

This study uses a qualitative approach with a literature study method. This method aims to analyze various relevant and valid literature sources to explore the role of basketball education in improving students' motor skills and discipline. This approach allows researchers to understand and synthesize a variety of theoretical views and empirical findings that have been published before (Creswell & Creswell, 2017).

Data sources in this study include scientific journal articles, conference proceedings, reference books, and research reports published in the last five years (2018-2023). The data is taken from leading

academic databases such as Google Scholar, Scopus, and ScienceDirect. The articles used are focused on topics that address the influence of basketball education on students' motor skills and discipline, including a study on sports training approaches in schools (Booth et al., 2021).

Data collection is carried out through documentation techniques, namely collecting, grouping, and reviewing various relevant literature. The data were classified based on inclusion criteria, such as literature that focused on basketball learning and its effect on students' motor skills and discipline, as well as exclusion criteria, such as literature that was irrelevant to the topic or that was of low quality. This technique ensures that the data used is valid and relevant to the research objectives (Yin, 2018).

Data analysis was carried out using the content analysis method. The analysis process begins with an in-depth reading of the entire literature collected, followed by the identification of key themes, such as the influence of basketball practice on motor skills, the development of student discipline, and the benefits of sports education in schools. After that, the data is categorized and synthesized to get a complete picture. The analysis is carried out iteratively to ensure that the results obtained reflect accurate and comprehensive information (Krippendorff, 2018). With this approach, this research is expected to make useful theoretical and practical contributions.

#### **RESULT AND DISCUSSION**

The data presented in the following table are the results of a filter from 10 articles relevant to the topic of the Role of Basketball Education in Improving Students' Motor Skills and Discipline. These articles were selected based on their relevance to the research theme, and were published in the last five years (2018-2023). The articles come from various quality national and international journals.

Table 1. Literature Review

No	Author	Title	Research Focus
1	Nisa et al.	Manfaat Bola Basket dalam Meningkatkan Kerjasama dan Disiplin Sekolah Dasar	The role of basketball in shaping character and improving students' motor skills
2	Hermawan Rachman	Pengaruh Pendekatan Latihan dan Koordinasi Mata Tangan terhadap Ketepatan Shooting Peserta Basket	Analyzing the effect of hand- eye coordination on basketball playing skills
3	Listiwikono	Analisis Peran Timbal Balik Pendidikan Matematika dan Olahraga	The relationship between mathematics and sports education in developing motor skills
4	Hermawan Nugroho	S Tingkat Motivasi pada Ekstrakurikuler Bola Basket	Evaluation of student motivation in basketball extracurricular activities
5	Erina	Pemanfaatan Media Modifikasi untuk Meningkatkan Keterampilan Chest Pass pada Pembelajaran Bola Basket Siswa SMP Negeri 1 Natar	Use of modified media to practice basic skills in basketball
6	Maesaroh	Pendidikan Jasmani dan Kesehatan (Permainan Bola Basket)	Fostering the value of discipline through basketball
7	Shalilihat Tambun	Sosialisasi Permainan Bola Basket untuk Meningkatkan Kemampuan Motorik Kasar	Implementation of basketball games for gross motor skills

8	Rusli		Penerapan	Metode	Drill	untuk	Using the drill method to hone
			Meningkatkan Hasil Belajar Shooting Bola				shooting skills in basketball
			Basket				
9	Kuncoro	&	Efektivitas Media Kartu Bergambar dalam			The effect of visual learning	
	Punggeti		Meningkatkan Keterampilan dan Motivasi				media on students' motor
			Bermain Basket			skills and motivation in	
							basketball
10	Mustafa	&	Keterampilan	Motorik p	ada Per	ndidikan	Discuss motor skills as an
	Sugiharto		Jasmani M	eningkatkan	Pemb	elajaran	important aspect of physical
			Gerak Seumu	r Hidup			education

Research related to the role of basketball education in improving students' motor skills and discipline shows a variety of approaches and interesting findings. The first article written by Nisa, Fajriah, and Ramadani (2024) discusses the benefits of basketball in shaping cooperation and discipline of elementary school students. The study emphasizes that sports education, particularly basketball, focuses not only on physical development but also on social aspects, such as teamwork and collective responsibility. This research shows that through intensive exercise and group work, students can strengthen motor skills and develop better self-discipline (Nisa et al., 2024).

Hermawan and Rachman (2018) explored the influence of eye-hand coordination on shooting accuracy in basketball. This study highlights the importance of a targeted approach to training to improve students' motor aspects, especially in the context of basic basketball skills such as shooting. The results show that improved motor coordination can significantly improve movement accuracy, which is an important element in basketball performance. This shows that basketball can be an effective medium to develop fine motor skills (D. A. Hermawan & Rachman, 2018).

Listiwikono (2022) relates sports and mathematics education in developing motor skills. The study offers a unique perspective that sports education can be integrated with other subjects, such as mathematics, to provide a more holistic approach to teaching. This research also emphasizes the importance of sports education in building motor skills that support academic performance, while increasing disciplinary values (Eko Listiwikono, 2022).

Research by Hermawan and Nugroho (2023) focuses on student motivation in basketball extracurricular activities. The results of their study revealed that students who were actively involved in basketball extracurricular activities showed a significant increase in learning motivation, both inside and outside the classroom. This motivation is triggered by success in physical activity that instills confidence and cooperation skills (D. Hermawan & Nugroho, 2023).

Another study by Erina (2023) examined the use of modified media to improve chest pass skills in basketball at the junior high school level. The findings suggest that the use of innovative tools can help students better understand basic techniques. This also reflects that the application of adaptive learning strategies is able to encourage optimal motor development (Erina, 2023).

Maesaroh (2023) highlights the role of physical education and health, especially through the game of basketball, in instilling positive character values such as discipline, cooperation, and responsibility. This study shows that physical education not only includes physical aspects but also plays a key role in the formation of students' character through a structured approach (Maesaroh, 2023).

Shalixem and Tambun (2022) focus on using basketball games to improve gross motor skills. The study emphasizes that planned physical activity can help children develop basic motor skills necessary for daily activities. Basketball is one of the most effective sports because it involves a variety of complex movements (Shalixem & Tambun, 2022).

Rusli (2023) explores the drill method in basketball learning to improve shooting learning outcomes. The study emphasizes that a drill-based approach can help students master techniques faster and more efficiently. The results show an increase in students' ability to shoot with higher precision (Rusli, 2023).

Kuncoro and Punggeti (2023) tested the effectiveness of picture card-based learning media to improve motivation and basketball playing skills. The results of this study show that visual aids help students better understand the concepts of basic basketball techniques, such as passing and shooting, and encourage them to participate more actively in sports activities (Kuncoro et al., 2023).

Finally, Mustafa and Sugiharto (2020) discussed the importance of motor skills in physical education. This study shows that motor skills developed through basketball can improve students' ability in lifelong physical activity. This study highlights the importance of an approach that focuses on the long-term development of motor skills (Mustafa & Sugiharto, 2020).

Overall, these studies show that basketball has a very important role in developing students' motor skills and discipline. With a variety of approaches, ranging from the use of assistive devices, integration with other lessons, to focusing on social aspects, basketball has proven to be an effective medium to support holistic student development. All of these findings reinforce the argument that sports education, particularly basketball, can have a significant impact on students' physical, mental, and social development.

#### Discossion

Basketball has a very important role in supporting student development, both in physical and character aspects. One of the most prominent impacts of basketball education is its ability to improve students' motor skills, both gross and fine motor. In addition, basketball also contributes to forming a disciplined attitude that is essential for students' success in daily life.

# **Motor Skills Development**

In terms of gross motor, the sport of basketball involves a variety of basic movements such as running, jumping, throwing, and catching the ball. These activities require intensive body coordination, which helps students strengthen the body's muscles, improve flexibility, and maintain balance. For example, when dribbling or passing, students must coordinate hand, foot, and eye movements simultaneously. This exercise trains the body to work in harmony, which is not only beneficial for sports but also supports daily physical activity.

Fine motor skills also receive special attention in basketball. When students learn certain techniques, such as dribbling with a specific hand, making a shot into the hoop at the right angle, or passing the ball with high accuracy, they practice more precise movement control abilities. These exercises not only improve accuracy and agility, but also encourage the development of skills that require precision, such as power adjustments when making long-range shots.

Basketball also helps to hone students' reaction speed and sensory responses. In a fast and dynamic game, students are required to immediately make decisions based on the situation that develops on the field. They need to read the direction of the ball, understand the opponent's movements, and determine the best move to defend the ball or score. This ability trains students' senses and reflexes so that they are more responsive and alert, both in sports and other situations in daily life.

# **Improving Student Discipline**

In addition to improving motor skills, basketball also plays an important role in shaping student discipline. Discipline starts from an organized exercise routine. In basketball, students are taught to practice consistently and in a structured manner. A rigorous practice schedule helps students understand the importance of time management and responsibility for their obligations. By getting used to following this routine, students learn to appreciate the process and stay committed to the goals they want to achieve.

Basketball also teaches self-control and adherence to rules. As a sport full of regulations, basketball requires players to respect the role of the referee, cooperate with teammates, and follow the rules of the game. Students who play basketball learn to control their emotions, both when facing pressure in the game and when interacting with other team members. This directly forms an attitude of respect for authority and rules, which is very important in their social life.

In addition, basketball teaches a strong work ethic. In this game, students are taught not to give up easily, try harder, and keep trying until they manage to score. These values build a mindset that success is the result of hard work and perseverance. This attitude is not only relevant in sports but also in other life challenges.

Basketball education also has a great impact on building social discipline. In a basketball team, each member must coordinate and communicate well in order to play effectively. Students learn to listen to coaches' directions, respect teammates' opinions, and maintain a collective spirit. This experience taught the importance of cooperation, tolerance, and the ability to put the interests of the team above personal interests.

# **Challenges and Supporting Factors**

However, the implementation of basketball education is not separated from challenges. One of the main obstacles is the limitation of sports facilities. Many schools, especially in remote areas, do not have adequate basketball courts or equipment such as balls and hoops. In addition, the lack of competent coaches is another problem. Sports teachers who do not have in-depth knowledge of basketball techniques may find it difficult to provide effective training.

The diverse motivations of students are also a challenge. Not all students have the same interest or motivation for basketball, so teachers must be creative in creating activities that are interesting and relevant for all students. However, there are several supporting factors that can strengthen the role of basketball education. The availability of adequate facilities, the support of qualified sports teachers, and the involvement of parents in supporting student sports activities are important elements to ensure the positive impact of basketball.

## **Practical Recommendations**

- 1. For Teachers and Trainers:
  - a. Develop a basketball training program that integrates motor and discipline aspects in a balanced manner.
  - b. Provide clear directions to students regarding the importance of discipline in practice and
  - c. Apply creative learning methods, such as simulation games, to increase student interest.
- 2. For Schools:
  - a. Provide adequate sports facilities, such as a safe basketball court and adequate equipment.

- b. Holding basketball extracurricular activities regularly to provide more space for students to develop their skills and discipline.
- 3. For Policy Makers:
  - a. Increase the allocation of funds for sports facilities in schools.
  - b. Holding training for sports teachers to be more competent in guiding students.

#### **CONCLUSION**

This study confirms that basketball sports education has a significant impact on improving motor skills and building student discipline. The intensive physical activity in basketball trains gross and fine motor coordination, while the social aspect of the game teaches teamwork and self-control. However, challenges such as limited facilities and lack of competent trainers are still the main obstacles in its implementation.

To maximize the role of basketball in education, schools need to provide adequate sports facilities and train sports teachers to have a deeper understanding of game techniques. In addition, the exercise program must be creatively designed to attract students from various motivational backgrounds. Policymakers are also advised to increase financial and structural support to advance sports education in schools. Effective integration of sports education is expected to be able to produce a young generation who are not only physically healthy but also have a strong character.

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