The Application Research of Modern Educational Technology in Badminton Teaching

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Keywords: Modern Education; Educational Technology; Badminton Teaching; Teaching Application

Abstract: This article bases on the traditional badminton teaching, and fully combines the modern educational technology, the use of multimedia courseware, online teaching platform can express the advantages of modern educational technology, and achieve the systematic optimization of the badminton teaching mode. With the modern educational technology applies to the badminton teaching mode, the badminton technique teaching will be more vivid, meanwhile the badminton teaching will no longer be limited by time and space, which effectively improves the quality of badminton teaching and the quality of students’ comprehensive physical education.

Introduction:
In recent years, with the deepening of quality education, the status of physical education in the campus is also rising. Badminton teaching belongs to one of the physical education, because of its fun and easy operation, it is popular among the students. In order to effectively improve the teaching level of badminton in our country, this article will focus on the research of the application of modern educational technology in badminton teaching.

1 Overview of Modern Educational Technology

Chinese modern educational technology originated in the 1920s, it is also known as the electrified education in China. Electrified education includes slides, movies and other media. Due to the drawbacks of traditional education, modern educational technology has been continuously developed and matured in just a few years. In order to get an accurate understanding of the concept of "modern educational technology," we must fully understand the word "modern". "Modern" mainly refers to contemporary or modern style and new style. Because of different understandings of "modern" and different understandings of modern educational technology, the modern educational technology is summarized into mainly two concepts: one refers to the emergence of new educational technology, which is different to the traditional educational technology. This concept emphasizes the innovation of modern educational technologies over traditional educational technologies. The other one refers to the educational technology being used currently, which encompasses not only new educational technologies but also the traditional educational technologies in use.

Modern educational technology is mainly based on information technology, so the combination of information technology and educational technology constitutes the modern educational technology. These two complements are promoting each other and have great significance on the development of modern education. As the Modern educational technology has used the information technology in its implementation process, so the whole process is a process of information generation and information transfer. Information technology includes microelectronic technology, multimedia technology, etc. Therefore, modern educational technology covers more technical contents and more abundant information resources.
2 Badminton Teaching Status

2.1 Teaching Methods and Teaching Organization are too Simple

As a sport, badminton is popular among boys and girls for its full of fun. Therefore, most students have a high enthusiasm for participating in badminton. However, the high enthusiasm for participation in the teaching process also requires teachers to constantly use fresh organizational methods and teaching methods to maintain. As a matter of fact, most teachers do not pay much attention to the innovation of teaching organization and teaching methods during their teaching process. As a result, the students will be bored during the learning process, which affects their enthusiasm for learning. In addition, because there are lots of students in badminton teaching process and the students’ physical qualities are different, the badminton teaching methods of "unifying goals and unifying practice" lead to the gradual increase differences of students’ physical qualities and the lack of teaching effectiveness.

2.2 Insufficient Teaching Space

The facilities of stadiums and gymnasiums are the important material base for the badminton physical education. At present, with the deepening of the call of "sports for all", many students choose badminton as their physical education course, so the facilities of the venues are in a serious lack status. On one hand, in badminton teaching, about eight students share a unified venue, which cannot meet the students' training needs. On the other hand, the school renovated the abandoned canteen teaching building into a gymnasium, which seriously affected students' enthusiasm in learning badminton and impeded the quality of badminton teaching indirectly.

2.3 Lack of Badminton Related Theoretical Knowledge

Psychology believes: the enhancement of the depth and breadth of knowledge is the basic condition to promote students to be interested in learning, only the students have a comprehensive system of badminton-related theoretical knowledge, they can truly understand the value of badminton learning, thus to stimulate students’ Intrinsic motivation and learning motivation. Badminton teaching is not just for students to exercise the sport, but also to let the students understand the badminton culture and badminton rules, etc., so the students can better participate in the sport. However, in fact, most schools pay more attention to technical study in the teaching of badminton. They neglect to explain badminton-related theoretical knowledge and the students learn this sport incompletely, which indirectly affects students' comprehensive sports quality improvement.

3 Modern Education Technology is an Important Measure to Change the Teaching Status of Badminton

3.1 Effectively Stimulate Students’ Interest in Sports

Modern education technology and traditional badminton teaching are essentially different. Based on information technology, modern educational technology runs through the entire teaching process of education, and fully realizes the shift from traditional badminton teaching to modern badminton teaching. In the actual teaching of badminton, the application of modern educational technology can show the students the essentials of badminton and the development history of badminton intuitively so as to make the teaching of badminton more interesting and vivid, so as to achieve effective teaching. In addition, by using the modern educational technology, multimedia teaching can be used to create a better teaching environment for the students, which also encourage teachers to mobilize students to participate in badminton sport so as to fully implement badminton teaching. At the same time, for students with different physical qualities, by adopting modern educational technology, teachers can learn about the actual situation of students in real time and help the students to better themselves and improve their overall qualities.
3.2 Optimize the Teaching Structure and Teaching Forms

Modern educational technology is a comprehensive integrated educational technology that integrates sound, figure and image, its application in badminton teaching is more conducive to optimizing badminton teaching structure and its teaching forms. For example, the application of multimedia technology in modern educational technology can find course resources anytime and anywhere during the teaching process so as to help teachers to carry out badminton technique movement learning in a short time and develop badminton related knowledge. Under the multimedia teaching, students can practice the technical actions according to the videos or pictures in the course sources provided by the teachers, which helps the students to meet their self-learning. The application of modern education technology in badminton teaching makes it is easier to reflect the key points and difficult points in teaching and enable to demonstrate the relevant focus of badminton action in detail, so as to enrich the course content effectively and to optimize the teaching effect of badminton.

4 Key Point of the Application of Modern Education Technology in Badminton Teaching

4.1 Continue to Improve the Hardware Environment

4.1.1 Strengthen the Campus Network Construction

Campus network construction is a large-scale network construction project, whether the construction and design of campus network is reasonable or not have serious influence on the application of modern educational technology. The main goal of building a campus network is to provide the best service for badminton teaching and promote the smooth development of modern educational technology. Campus network construction should follow the principles of safe and open, which will promote modern education technology to play its most value in badminton teaching.

4.1.2 Build Badminton Electronic Classroom

Although, badminton teaching is a practical sport, its theoretical knowledge is equally important. With the construction of the campus network, the electronic badminton classroom with the computer network as the core will become the mainstream. Badminton electronic classroom construction related to the teaching of badminton theory, so to ensure the full implementation of badminton teaching, badminton electronic classroom must be build in order to achieve badminton teaching information digitization, interactive operation and so on.

4.1.3 Construction of Educational Resources Environment

The application technology of modern educational technology is information technology, while the badminton teaching resources belong to the core of modern educational technology that applied to badminton teaching. The related badminton teaching resources construction is also the focus of current PE teachers. For the badminton teachers, high-quality badminton classes cannot be separated from a strong teaching resources background, for the students, improvement of their own physical fitness and badminton skills are inseparable from the education and teaching platform. Therefore, the application of modern educational technology in badminton teaching should continue to strengthen the construction of educational resources environment, so as to build a solid foundation for the development of badminton teaching.

5 The Specific Application of Modern Educational Technology in Badminton Teaching

5.1 Use of Multimedia to Carry out Theoretical Teaching Regularly, Balance the Proportion of Theoretical Practice

In the traditional badminton teaching, the badminton skills practice course usually lasts for 15 weeks, and the rest of one week is for the theoretical class. Under this teaching mode, the proportion of theoretical practice courses is seriously unbalanced, and it is difficult for students to digest complicated badminton skills. To this end, teachers should make full use of modern educational technology to change the traditional badminton teaching mode, balancing badminton theory practice curriculum. This teacher should be from the following two aspects:
5.1.1 Carry out Multimedia Theory Courses Regularly
Multimedia is an important part of modern educational technology. At present, most schools have perfect multimedia facilities. As a physical education teacher, they should make full use of multimedia settings to regularly carry out badminton theoretical courses for their students. For freshmen entering the first semester of the program, teachers can appropriately add theoretical courses and make use of multimedia to introduce badminton courts and competition rules, helping freshmen in the first semester acquire basic theoretical knowledge.

5.1.2 The Use of Video, Repeatedly Show Badminton Technical Action
In order to effectively stimulate students' interest in sports, teachers can make use of multimedia to introduce their badminton development course to students and introduce badminton international competitions such as the Sudirman Cup, Olympic Games and so on, so as to enrich students' badminton knowledge. At the same time, teachers can use multimedia to show students' favorable badminton player style, so as to stimulate student interest in learning. In addition, in order to lay the foundation for practicing badminton, teachers should pay more attention to using multimedia to display badminton techniques during the course of lectures. For example, balls in front of a net, kill a ball and so on, encouraging students to have the impression of correct actions in their minds and have a better grasp of the knowledge.

5.2 Badminton Technical Course Teaching
After the regular teaching of badminton courses on multimedia theory, students have a general idea about badminton teaching contents and teaching links, and teachers will then use modern educational technology to teach badminton technical courses. In this teaching session, teachers are more to guide students to access information on their own to participate in online teaching platform, and to achieve the sharing of badminton technical information, so as to improve the skills of badminton students anytime and anywhere.

5.2.1 The Use of Social Software to Achieve Interactive Teaching
The application of modern educational technology has brought closer the distance between teachers and students and helped teachers to teach badminton techniques better. In the teaching of badminton technology, the focus of its teaching is the badminton skills and student reaction skills. In the teaching process, teachers can make full use of mobile phones and other equipment to play related badminton games video for students to practice. At the same time, after the lectures, teachers should make full use of various social softwares to enable students to interact with teachers and prompt teachers to grasp the students' information in time, so as to guide students in badminton learning. In addition, it can also make use of online teaching platform to develop relevant badminton questionnaire, in order to achieve online interaction between teachers and students, and better expand the teaching of badminton course.

5.2.2 Play and Practice Moves to Correct Student Errors
In the teaching of badminton, for related action, if relying on the teacher to take the traditional method of decomposition and teaching, it would cause mistakes in imitation and practice, resulting in incorrect badminton action. And under the traditional teaching and decomposition, students cannot clearly understand the process of action and accurately grasp the basic action of badminton. In order to solve this problem, teachers can use the multimedia to play related actions in the teaching of badminton techniques and guide the students to carry out the exercises step by step. When students are in the process of rehearsal, the teacher can come back and forth to conduct inspections. If teachers found that students do not move correctly, students should be corrected. Under the teaching of "multimedia playing and students' rehearsal", teachers are more energetic in guiding students with non-standard actions and this will not affect the learning progress of other students.

5.3 Use Badminton Resource Library to Achieve Sharing, Improve Student Actual Combat Level
Through the construction of online teaching platform or the construction of campus internet, students can be encouraged to share the Badminton Resource Database, and we can put them into
the Badminton Technology Action Teaching Resource Library. For example, the grip method, hanging ball and so on so as to help the students who did not grasp the technical actions to privately learn to improve their badminton. In addition, according to the preferences of student, teachers can put some competition videos into the badminton pool of shared resources, so as to enable students to embellish the spirit of sports anytime and anywhere and improve students' actual combat skills.

**Conclusion**

All in all, the traditional techniques of badminton and its skills teaching have shown many problems under the conditions of modern educational technology. It has been unable to meet the current educational requirements and the learning needs of students. Therefore, on the basis of traditional badminton teaching, modern educational technology must be adopted to change the traditional teaching methods so as to make badminton teaching realize the transformation of modern teaching. In addition, in order to ensure the effectiveness of modern educational technology in badminton teaching, it is necessary to strengthen campus network construction and improve teachers' information literacy to better apply modern educational technology to badminton teaching, so as to ensure the badminton teaching is carried out smoothly.

**Reference**


