

## **Research on the teaching innovation model of the integration of information technology and music education**

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**Abstract:** In the environment of intelligent education, in order to comprehensively improve the quality of music education, we should adhere to the application advantages of information technology as the basis, by reconstructing the form of music education, optimizing the music teaching process, and enriching the music teaching materials, so that students can better understand music Teaching content, to achieve the essential innovation of music education model. Through the analysis of the current problems in music education, combined with the interpretation of the advantages of the integration of information technology and music education, a teaching innovation model of the integration of information technology and music education is proposed.

Key words: information technology; music education; integration; teaching innovation; model research

With the continuous penetration of information technology in the field of teaching, its role and advantages have been continuously reflected, and relevant scholars have paid more and more attention to the deep integration of information technology and teaching. Information technology can help music teaching deliver a more vivid teaching experience, deepen students' understanding of vocal singing and emotional concepts, thereby breaking the barriers of "imaginative" music teaching and progressing to "immersive experience teaching". Through the deep integration of information technology in music teaching, the music classroom can become a key platform for students to perceive music and improve their personal artistic accomplishment.

### **1 THE CURRENT STATE OF DEVELOPMENT OF MUSIC EDUCATION**

The scale of music education has expanded with the convenience and universality of people's exposure to music, and it occupies an increasingly important position in education. Only by training a group of talents with professional music knowledge and ability to meet the needs of social development. The current music teaching system is not mature enough, and each teaching training mode is not the same. The development of information technology has completely changed people's attitudes and feelings towards music. While obtaining convenience, people's requirements for music quality are also increasing. The integration of information technology and music teaching should be regarded as an important aspect of music teaching reform, and the modern way of people receiving information should be used to change and enhance the learning methods of music majors, so as to improve the quality of music teaching as much as possible.

The content setting of the music course includes the understanding and thinking of the current music education in our country, and represents the most important and necessary music knowledge and content in the music teaching. From the perspective of music education curriculum, subjects with professional music knowledge, such as basic music theory, basic vocal music, and Chinese and foreign music history, account for the vast majority. The study of professional subjects is of course necessary, but music is an artistic subject that requires students to have perceptual

qualities, and only professional knowledge cannot become an excellent music talent. The lack of humanities makes music majors reduce the acquisition of cultural and artistic literacy, and in the long run, it will greatly limit the development of students.

Throughout music education, almost all the teaching materials are selected from traditional or classic pieces of music. Classical music knowledge accumulated through culture and time can improve students' professional quality, but if all learning is based on traditional and classic music. Data will narrow the boundaries of music learning. The unique charm of music is that it does not have clear rules and strict systems like science and engineering. Everyone's sensibility and appreciation for music is different. Some people in the same style of music will resonate with it a lot, but others may find it mediocre. Therefore, the music world needs to draw fresh blood to continuously enrich and nourish itself.

In music education and teaching, teachers should not only teach students professional music knowledge, but also pay attention to the cultivation of their practical ability, such as focusing on cultivating students' professional performance ability and appreciation ability. However, most of the current practical teaching of music education is not perfect, and there are some problems in practical courses, such as lack of complete music equipment, and the inability to achieve one-to-one teaching guidance due to the large number of students. Therefore, how to improve the proportion and implementation of practical teaching in music education and teaching is a problem that everyone should seriously consider.

## **2 THE ADVANTAGES OF TEACHING INNOVATION IN THE INTEGRATION OF INFORMATION TECHNOLOGY AND MUSIC EDUCATION**

The subject of music itself has the characteristics of sensibility, rich content and strong practicality. Therefore, music appreciation and music creation are also inseparable contents in music teaching. Music teaching should not stay on paper and move towards a rigid teaching form, but should enable students to continuously improve their musical literacy and personality development in music teaching. This requires that students be provided with sufficient practical opportunities in music teaching, so that students can occupy a dominant position in teaching. Teachers should continue to promote the diversified development of music teaching as organizers and promoters, so as to meet the individual development of students. need. The use of information technology can expand the information channels of students and fully reflect the students' dominant position in teaching. The use of information equipment and music software can make up for the lack of music practice conditions in schools and families. The use of the information platform can balance the teaching needs of students, so that students with weak foundations can practice repeatedly according to the teaching resources of intelligent terminals, and students with solid foundations can independently carry out advanced training. In teaching, teachers can shorten the distance with students, carry out targeted guidance, and play the role of organizers and promoters.

The new curriculum reform puts more emphasis on the dominant position of students in learning. Students should change their passive acceptance and numb memory state, develop positive thinking in learning, and become meaning builders in music learning through music experience and music perception. Information technology can increase the flexibility and richness of the classroom, create more vivid classroom teaching with greater creative space for students, and enable music teaching to improve students' participation and personality development. Through information technology, teachers can help students become the builder of meaning in learning from a guiding position, enhance the practicality in music classrooms, and enable students to deeply perceive the melody, rhythm and speed of music in practice, thereby placing more emphasis on students' main position in the teaching, and constantly improve the students' core literacy of music. The integration of information technology in music teaching is not only the popularization of tablet computers in the classroom. Teachers can use the computer room to show the studio effect for students through headphones; connect with electronic devices to perform ensembles in the classroom; and interact through multiple screens.

For teaching staff, information technology can not only play a good auxiliary role in teachers' teaching work, but also help teachers to break through key and difficult points in the process of teaching students. Music is a subject that can inspire human wisdom. In the process of music teaching, middle school students can discover and feel beauty. Using information technology can improve students' aesthetic ability and effectively stimulate students' creativity. Most students love popular music, but traditional folk art culture has been neglected. Little do they know that these traditional folk art cultures are the cultural treasures of our Chinese nation. Teachers should guide students to understand and learn more in their teaching work. It is relatively difficult for students to understand Quyi culture only through classroom teaching, but if teachers can apply information technology in the teaching process, they can achieve ideal teaching effects. Teachers can download representative Quyi works from the Internet in the pre-class preparation stage, in the way of computer class, let students appreciate the works of Quyi with the help of the computer room, and then combine the tools such as mind maps to sort out the learned content to ensure that students can get in-depth learning.

Teachers can also use information technology to highlight the expressive power of music in some important links. Teachers and students can jointly explore the rhythm and melody of music, which is a more vivid interpretation of the characters in music fairy tales. The music class does not deviate from the textbooks, but also broadens the students' horizons, combining the textbooks with rich learning resources. Teachers can also assign music creation tasks to students, and allow students to use mobile terminals to record videos of their performances. Teachers can encourage students to upload their performance videos to the website and generate an exclusive QR code for the video. Teachers and students can scan the video. The way of QR code to enjoy the video is not only conducive to improving students' comprehensive musical literacy, but also conducive to cultivating students' musical self-confidence.

### **3 THE TEACHING INNOVATION MODEL OF THE INTEGRATION OF INFORMATION TECHNOLOGY AND MUSIC EDUCATION**

When carrying out music teaching, an important condition to ensure the efficient implementation of practical education is to build a corresponding teaching platform and reasonably develop valuable educational resources. It is necessary to attach importance to the construction of an information-based data platform, and to grasp the real learning situation of students through the platform in a timely manner. Through the platform, quantitative reports can be issued within a certain time frame to evaluate students' performance and further carry out scientific and reasonable teaching evaluation activities. When carrying out daily teaching activities, the teaching platform can also become a special tool for teachers to adjust teaching plans and teaching strategies. The data information reflected by this teaching platform is more objective. Through the teaching platform, teachers can customize a variety of training modules for students, such as sight-singing training, listening training, creative training, etc.

Use information technology to organize teaching content to make it organized, diversified and systematic. In the process of music teaching, teachers can use modern information technology to dynamically process, optimize and combine the content of the teaching materials, so that it can be displayed in the music classroom teaching in a new form. For example, teachers can use the combination of sound effects and animations to visually teach students the knowledge of musical notes, staves and rests in music theory; play some eloquent videos, videos, etc. in singing teaching, through which the teaching process is more interesting. Flexibility, variety and fun. Applying information technology to music appreciation teaching can get twice the result with half the effort. In teaching, teachers can use information technology to put together music appreciation works with similar themes, genres, and content, and let students compare and appreciate them, so as to broaden their musical cultural vision and enhance their perception and aesthetics of music.

Utilize educational information technology to realize personalized music teaching and learning. Taking student development as the center, with the core concept of "unbounded teaching space" of "interconnection, resource sharing, live recording and broadcasting online and offline, interconnection, and data first", it has opened up educational affairs, academic work, all-in-one cards, smart classrooms, etc. The information island integrates teaching resources, teaching services, and teaching data, provides teachers and students with shared, interactive, and diverse content display means and interaction methods, and creates a smart teaching ecological environment. Change the original teaching mode through innovative smart teaching, strengthen the interaction between teachers and students, create a smart learning space, and stimulate learning interest. Based on the network, it realizes the overall integration and unified management of each subsystem equipment in the smart classroom. Provide music education with integrated functions such as smart teaching, online teaching, smart management and control, and data matrix, and build a three-dimensional integration of smart teaching environment, smart teaching mode, and smart teaching evaluation. "Unbounded", the "boundless" of online and offline time and space, and the "boundless" of resource sharing in front of and behind the scenes.

Using information technology to make music education more dynamic, the music subject teaching under the traditional teaching mode only realizes teaching through teachers' singing or musical instrument performance, which requires high personal quality of teachers, and it is difficult to achieve effective teaching. Students It is easy to feel that music teaching is boring, but with the integration of information technology, students can experience different learning experiences. From the perspective of music appreciation alone, students can get a more intuitive music experience. Through encouragement in the classroom, students can enhance their interest in music learning, and the quality of classroom teaching can be effectively improved, thereby promoting the integration of information technology and music education. To achieve this, teachers need to change their traditional teaching concepts and bring students The optimization of the teaching mode makes it easier for students to learn music. Teachers use the audio production software in information technology to present the scores to the students in a dynamic way, so that the students can fundamentally understand the scores. At present, the music learning software that is often used in the market can select the area to play by moving the cursor during the music playing, and can adjust the playing speed. These changes allow teachers to let the students and the music in the teaching process. Different interactions are generated, so as to enrich the music resources and enhance the students' learning experience.

The advantages of information technology have brought new vitality to music education and teaching. Teachers use information technology to improve the existing curriculum, making the cu

#### **4 CONCLUSION**

Curriculum lively and interesting, and enhancing students' memory and sensibility. With the continuous development of the information age, information technology has already taken root in our lives, and so is teaching work. The emergence of information technology has had a profound impact on it. The deep integration of information technology and music teaching is worth exploring. With the help of information technology, subject teaching has ushered in an information-based environment. The teaching process not only reflects the dominant position of students, but also allows teachers to play a leading role. The new teaching method has made a real change in the traditional music teaching classroom.

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