

The Application of Vocal Music Electronic Keyboard to Sight Singing Teaching of the Preschool Education in Higher Vocational Schools

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Abstract: Sight singing is a required course for preschool education in higher vocational schools. However, most of the students graduate from high school so that their music foundation is poor and their interest in learning is not high, so they can't gain positive learning results. The vocal music electronic keyboard is to implant the do, re, mi and other single tones sung by human voice into the electronic organ chip. Playing the electronic organ can sing the scores of sight singing, song and music. No matter the staff or the score, no matter the first key or the fixed key, it can be easy to play. The use of the vocal music sung by the teacher that is recorded through vocal music electronic keyboard for preview, review and teaching has not only greatly improved students' interest in learning and ability of sight singing, but also promoted students' vocal music and piano learning, laying a good foundation for students' teaching in the field of art after employment.

1. Introduction

The vocal music electronic keyboard is to implant the single tone do, re, mi, fa, sol, la and si sung by human voice into the electronic organ chip. When songs or music is played on the electronic keyboard, the electronic organ will sing out the corresponding scores. Human voice can be divided into male voice and female voice, and the key can be divided into C, F, ^bB, etc. All keys on the keyboard of electronic organ can play do, re, mi, including black keys. Its advantages are wide range, accurate pitch, the ability to sing solo instrumental music, recording storage and dissemination. The application of vocal music electronic keyboard to the sight singing teaching of preschool education in higher vocational schools can achieve good teaching results.

2. The Importance of Sight Singing Teaching in Preschool Education

2.1 Sight Singing is the Foundation of Studying Vocal Music and Learning to Play Piano

Vocal music, piano and baby songs played and sung are compulsory courses of preschool education in higher vocational schools. Sight singing is an important basis for students to learn these courses. Rhythm and intonation are the two most important aspects. If students' sight singing ability is relatively poor, then these courses must be very hard to learn and they will be at a low level.

2.2 Sight Singing is the Foundation of Art Teaching

Kindergarten's teaching activities involve five major areas, and the art is a very popular among children. In order to teach children to sing, play the piano, rhythm and play music games in the classroom, kindergarten teachers need the basic ability of sight singing.

2.3 Sight Singing is the Foundation of Music Creation

In children's teaching activities, teachers need to teach Orff instruments, write and direct musicals, create children songs, etc. Teachers are required to have a certain ability of music creation, which is based on the basic attainment of music. In particular, sight singing is one of the most important aspects.

3. Problems in Sight Singing Teaching

3.1 Low Interest in Learning Due to Poor Music Foundation

Most of the students majoring in pre-school education in higher vocational schools graduate from high school, with poor music foundation and weak concept of intonation. Most of the students have not studied the staff. Therefore, they even cannot keep up with the rhythm, sing the correct sound name, or sing with accurate pitch when starting sight singing. They have a lot of difficulty in music theory class and sight singing class.

3.2 Transform Staff into Numbered Musical Notation for Sight Singing

Due to the poor music foundation, some students secretly transform staff for sight singing in the textbook into numbered musical notation. Most of the students use rollerball pen to write so that it can't be erased later, which violates the outline requirements of this course, and leads to the ignorance of staff when learning piano and baby songs.

3.3 Lack of Audio and Video Materials for Sight Singing Teaching

At present, only a few publishing houses print the two-dimensional code of piano playing in the sight singing textbooks, and the number is very small. The audio and video materials of vocal music on vocal textbook, piano textbook and baby songs textbook required by preschool education are also hard to find on the Internet and are quite rare.

4. The Application of Vocal Music Electronic Keyboard in Sight Singing Teaching

As a newly developed electronic keyboard that can sing the vocal music score, the vocal music electronic keyboard solves the problem that there is no vocal music score demonstration in the current sight singing, vocal music, piano and baby songs played and sung textbooks, greatly improving students' interest and efficiency in learning sight singing.

4.1 Intuitionistic Teaching of Sight Singing Makes Learning and Master of Music Theory Easy

Music theory is the foundation of sight singing. In the sight singing teaching, the vocal music electronic keyboard, with an advantage of playing all the roll calls, can explain the music theory knowledge of pitch name and roll call, register and range, interval and chord, scale and mode and others for the students who major in preschool education gradually from easy to difficult. Through the intuitionistic teaching, starting from dictating the roll calls of single tones, teachers pay equal attention to the numbered musical notation of sight singing and staff of sight singing and start the training of interval, chord and remembering music score when listening so as to master the knowledge of music theory easily.

4.2 Simplifying the Sight Singing Teaching Can Help Improve the Ability of Sight Singing Quickly

Fully utilizing the advantages of vocal music electronic keyboard can help improve the ability of sight singing quickly. Vocal music electronic keyboard has many features such as a wide range, rhythm digitalization, conversion between male voice and female, directly playing roll calls, and recording storage. In the sight singing teaching with the vocal music electronic keyboard, first let the students listen to the music score played by teacher through the vocal music electronic keyboard in the original speed and tone, and then the music score is played in a lower speed so as to make the students sing with it. Finally, let students sing in unison in the original speed after finding the difficulties and solving them. The sight singing teaching is carried out step by step through the vocal music electronic keyboard, so that students will not feel worried when seeing musical notation.

Make use of the advantage of the intonation of the vocal music electronic keyboard to overcome sight singing that is far too difficult. When students are learning the sight singing with more changing sounds, intonation is the biggest obstacle. Only with the help of piano sound or the

guidance of the teacher can students effectively learn and improve it. At this time, the intonation advantage of the vocal music electronic keyboard can be utilized, so the black key, white key, high tone and low tone can be played easily, such as *In the Night*, *Moscow Nights* and other sight singing repertoires.

Improve the ability of sight singing in the comparison of the first tone and the fixed tone of the electronic keyboard. One of the most distinctive advantages of the electronic keyboard is that it can play the staff according to the fixed and the first key separately. In order to solve the problem that the black key can play both sharp and flat, the vocal music electronic keyboard implants the C key into the vocal scale according to the sharp C and the flat C. For a sight singing song, students can choose two singing methods for sight singing so that, in comparison, they can easily master the tonality of the mode and sing the accurate pitch.

4.3 Interest in Sight Singing Teaching Can Help Promote the Learning of Piano and Vocal Music

The first is to share the recording of piano music played by the vocal music electronic keyboard. The teacher records piano music or songs through the vocal music electronic keyboard and sends them to the WeChat group or learning platform of the class so that the students can get the overall impression of the music during the preview, and preliminarily grasp the speed, strength and emotion of the music or songs. In the classroom teaching, we should overcome the difficulties and teach at different levels. Students can also download the accompany into their mobile phones so as to listen, sing, play and recite music anytime and anywhere, which enhances their interest in learning and promotes the learning of piano and vocal music.

Second, the vocal music electronic keyboard can play piano music with a wide range. The vocal music electronic keyboard can sing music score with its range up to 5 octaves. It can easily play the high pitch and the low pitch that human is hard to achieve, including the black key sound. Recording the piano solo through the vocal music electronic keyboard overcomes the problem that the singers can't sing the piano music score, so that learning to play piano becomes intuitive, easy to learn and interesting. The students are very interested in such songs as *For Elise*, *Alla Turca* and *Dream Wedding*, which are played by the vocal music electronic keyboard.

The third is to use the vocal music electronic keyboard to accumulate a large number of baby songs for students. In the future, preschool education students will teach baby songs, organize music games, and teach Orff music in the kindergartens. It's very important for them to have the ability of sight singing and to accumulate the baby songs as much as possible. Students learn to sing baby songs and play baby songs with the help of the vocal music electronic keyboard, which is fast and efficient.

4.4 The Spread of the Singing Score Materials through the Internet Can Improve the Sight Singing Teaching Efficiency

The first is to release the recording of singing score to WeChat group for preview and review. When preparing lessons, teachers can use the vocal music electronic keyboard to mark the speed in terms of sight singing and record it with the metronome on the electronic keyboard, and then send it to the class group. Students can preview and review after opening it with the mobile phone, and can study anytime and anywhere after storing it in the mobile phone, so as to easily overcome the difficulty of sight singing and improve the sight singing teaching efficiency.

Second, the publishing house improves the learning efficiency of sight singing through the dissemination of teaching materials. The publishing house can record the vocal music audio and video for the sight singing teaching materials, vocal teaching materials and piano teaching materials, upload the network and print the two-dimensional code on the teaching materials, and students can carry out standard sight singing learning through mobile phone scanning the QR code, so as to improve the learning efficiency.

The third is to study sight singing through Kwai app (a software used to make and launch short videos), web pages and official account. At present, many teachers have recorded singing music score teaching on the Kwai platform, but some of them have some shortcomings such as inaccurate

pitch, limited vocal range and poor timbre. If we use the vocal music electronic keyboard to sing the music, we can overcome these shortcomings and release them to the Internet platform such as Kwai app, web pages and official account, so as to improve the students' ability of sight singing.

5. Conclusion

In a word, the vocal music electronic keyboard is a new tool in the field of sight singing teaching, which makes the sight singing teaching of the pre-school education in higher vocational schools more interesting, reduce the difficulty, improve the efficiency, laying a solid foundation for the future teaching in the field of art in preschool education and paving the way for the specialization of students' art skills.

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