

The Impact of Modern Technology on Chinese Education

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ABSTRACT

With the rapid development of the Internet and modern technology, education is becoming more and more technological. In particular, during the COVID-19 epidemic prevention and control period, online education was fully adopted in China. This paper makes a specific analysis on impact of modern technology on Chinese pedagogy in four aspects: "smart classroom", the transformation of the role of teachers, the responsibility and anxiety of parents under Internet teaching, and targeted poverty alleviation through Internet + education, and puts forward some useful suggestions. For example, to improve teachers' personal skills in using Internet technology; Lead parents to understand the benefits of Internet education and reduce parents' anxiety by limiting students' use of electronic devices; Vigorously develop Internet + education to promote the balance of education in China.

Keywords: Internet education, Wisdom classroom, teachers, parents, targeted poverty alleviation

1. INTRODUCTION

In 2015, the "Internet +" action plan was put forward and received wide attention from the education circle. In March 2019, General Office of the CPC Central Committee and General Office of the State Council issued the Implementation Plan for Accelerating Education Modernization (2018-2022). It is pointed out that we should vigorously promote the construction of educational information and make the Internet gradually integrate with education. However, teachers' personal skills in modern technology and the Internet are unable to adapt for a while due to the excessive transformation efforts. Therefore, teachers have been trained in skills and classroom efficiency has increased many times. In addition, Online classes are becoming more and more popular, and colleges and universities are encouraging teachers to actively apply for the country's online open quality courses. In this transformation of education mode, Not only do teachers need to rethink their role in education, but parents face great challenges in how to educate their children in an unfamiliar field. At the same time, education is the most direct and effective way to solve ideological and spiritual poverty. The development of "Internet + Education" mode can maximize education

sharing and promote education balance. The purpose of this paper is to explore the influence of the new education model combining Internet technology and education on the classroom, teachers, parents and society, and to put forward different suggestions according to different influences.

2. WHEN TECHNOLOGY ENTERS THE CLASSROOM: THE SMART CLASSROOM

What is the smart classroom: the smart classroom is to divide the teaching into the student side, the teacher side, and the teaching administration side. Teachers use screen sharing, real-time answering and random call to improve the efficiency of the class and students' attention. They also use in-class quizzes to timely pay attention to students' mastery of knowledge in class. And students can use electronic equipment to take notes directly on the electronic textbook, to achieve electronic homework, which can be submitted directly. Parents can connect to the school, teachers and students' personal websites through mobile phones, so that students' personal conditions can be viewed in real time, and the backstage of the school can also process, store, statistics and other data for easy viewing. Since March 1, 2018,

six classes of Wenshan Siyuan Experimental School have entered the "Smart classroom" education mode. Students have gradually formed an independent, inquiring and cooperative learning mode, which has stimulated their interest in learning and made a qualitative leap in learning quality. Even after class, can also timely communication with the teacher, learning efficiency is greatly improved. Teachers use different teaching software in class, can easily achieve explanation, question and answer, roll call. The combination of information technology and curriculum makes teaching methods diversified and easier for students to understand. Zhou, a fifth-grade teacher from Wenshan Experimental School, said in an interview that the smart classroom is comprehensive digitization of information related to teaching, research, management and life services by using computer technology and scientific and standardized management on campus. Its core is the use of the wireless network in class to achieve paperless teaching. In the process of smart classroom, many teachers have found confidence in their teaching and students have found more happiness in learning. In the teaching mode of "Smart Classroom", the interaction between teachers and students becomes more frequent. Teachers can give targeted guidance to students' problems. Students can use the learning terminal to feedback their learning results to teachers in real time. Chinese education modernization advocates and practices smart education, which is to promote and develop new models of smart teaching and new ways of smart learning. In the classroom of intelligent teaching, teachers create learning environments and Spaces, integrate and apply teaching resources and teaching technologies, reconstruct the classroom teaching organization and ecology, and provide precise guiding solutions and processes for students to carry out experiential learning, blended learning and personalized learning. Figure 1 shows the learning methods of students who make progress in the smart classroom.

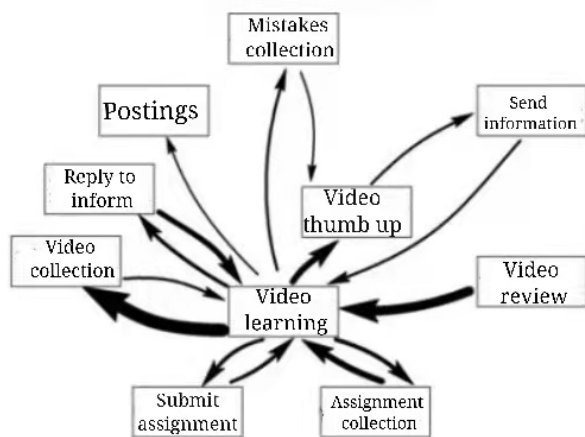


Figure 1. Ways for students to make progress in wisdom class

3. TRANSFORMATION OF THE TEACHER'S ROLE

In China, the traditional teacher's main responsibility in the past was to impart knowledge. He used textbooks and blackboards to tell all the knowledge points to students in a single way and the classroom atmosphere was not active enough. Especially in the explanation of some difficult problems, students are not easy to understand, resulting in lower classroom efficiency, student performance is not easy to improve. But with the introduction of the Internet and computer technology, the role of teachers has become more complicated. They are not only lecturers, but also "computer geeks". Online and offline teaching should be combined, and students' learning situation should be timely fed back to parents through various APPs through big data analysis[1]. For this point, young teachers are handier than middle-aged teachers. Young teachers are familiar with the operation of various electronic devices and application software, and can communicate and interact with parents and students frequently, so as to know the situation of students at any time. And middle-aged teachers may omit some steps, because of the personal skills to students at the same time, because the student contact with electronic products gets more time, some students may be beguiled by the computer, mobile phone, etc., at this point, the teacher wants to play emotion and soul of the identity of communicators, not only to students on knowledge, but also cultivate mental health, strengthen supervision, to guide the healthy development of students. In daily communication with students, give students more care [2]. At this time of rapid development of information technology, network information types gradually is various, but not all are beneficial to the physical and mental development of students, some spam may seriously affect physical and mental health of students, teachers should be timely find students a variety of negative emotion and negative psychology, helping students to relief emotion and stress[3].

4. PARENTS' RESPONSIBILITIES AND ANXIETIES

Although scientific and technological innovation has been widely recognized in education, it has brought great advantages to the improvement of the educational level of students at all stages, but it is far from enough to only need the understanding of the professional field and relevant people[4]. Parents also play a key role in education. What they bring to students is not only the responsibility of guardians, but also the first education of children. For most parents, traditional education modes and methods, such as taking notes on a notebook, finishing homework on an exercise book and staying away from electronic devices during the study, are the most familiar and appropriate. Of course, in their impression, these are also the most favorable learning

methods for children. Therefore, in the transformation of education, most parents can not accept it for a while. (1) Schools can set up related lectures on the Internet and education, so that parents can see the convenience brought by the Internet for children's learning and understand the use methods and advantages of various learning software. (2) Schools should reasonably control the time students spend using electronic devices. Children's physical health is the first concern of parents compared with their academic performance. Many parents worry that watching electronic screens for a long time will do some harm to children's eyes. Therefore, it is necessary for schools to control the time spent using electronic devices reasonably. (3) Students are strictly prohibited from downloading games or social software on iPads or mobile phones. As is known to all, many students are addicted to video games, which leads to a sharp decline in their academic performance. Parents may also think about this problem. Therefore, schools should control the electronic devices of students to avoid playing games during the study.(4) Combine Internet teaching with paper teaching, so that students' written knowledge will not be left behind. Nowadays, the most important exam for middle school students in China is the college entrance exam. Now it is still finished on paper. Long hours of computer study may cause students to forget the feeling of answering questions on the test paper. Secondly, paper books are still a treasure of knowledge that cannot be abandoned and cannot be replaced by the Internet. Reading printed books is very important for students' growth and learning. (5) Lead parents to experience the convenience and advantages of Internet teaching. As you can imagine, it is difficult to change some traditional concepts. Only by letting parents feel the benefits brought by Internet play for teaching, can parents accept this new education model more quickly.

5. TARGETED POVERTY ALLEVIATION THROUGH INTERNET PLUS EDUCATION

Targeted poverty alleviation through Internet + Education refers to the realization of educational balance with the help of Internet information sharing, media integration, interactive autonomy and other features. With the continuous development of the economy, high-quality educational resources on various network platforms are common and have attracted many excellent teachers. With the joint efforts of all of us, a wide range of educational resources has been provided for different groups while conforming to the development trend of the information technology era. The emergence of "Internet + Education" has not only changed the traditional education mode and environment, but also stimulated the internal vitality of education to a greater extent, enabling the educated to fully enjoy high-quality educational resources and

broaden their thinking horizon no matter where they are and at any time. At the same time as improving the comprehensive quality of the educatees, they are also moving forward to solve the educational poverty and finally promote spiritual poverty. Because of the differences in economic development in different regions, the problem of unbalanced education development in China is particularly prominent. Combining modern technology and education, to break the traditional education in the region, time and resource constraints, can realize remote sharing of rich curriculum resources effectively to solve the problem of insufficient teaching hardware and rural remote areas enjoy cultural rights equal to the number of students in rural areas and the education rights and interests, at the same time, helps to enhance the level of rural education and teaching quality, promote the harmonious development of the rural and urban areas[5]. As shown in the figure 2, the number of people using online education is increasing which also means that more and more people in poor areas can access educational resources through the Internet. According figure 3, the average daily duration of online education app users in China is becoming longer. Many courses have been gradually transferred to the Internet, and online education has been accepted by more and more parents and students.

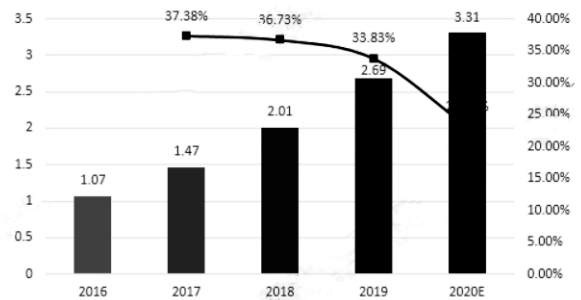


Figure 2: Scale and forecast of online education users in China during 2016-2020

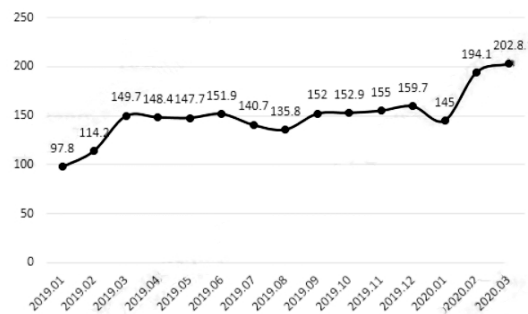


Figure 3: Average Daily Duration of Online Education App Users in China 2019-2020

6. CONCLUSION

As the research has demonstrated, in the information age, the role of Internet education can not be underestimated. In the process of adapting to the new educational model, teachers' personal skills have also been greatly improved. The school not only provided corresponding training for teachers, but also provided relevant activities to help parents understand the advantages of Internet education and limit students' use of electronic devices to reduce parents' anxiety in consideration of parents' discomfort with the new education model. Moreover, the popularization of Internet + education has broken the time and space limitations of education and largely solved the problem of the unbalanced development of education in China.

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