



# On the Influence of the Development of Modern Educational Technology on Primary and Secondary Schools

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## Abstract

With the continuous development of educational technology, modern education has become an indispensable thing in people's daily life. In the teaching process of primary and secondary schools, multimedia, computers and other high-tech means are used to improve students' learning efficiency. By comparing modern information technology with traditional cultural knowledge, we find out where its advantages lie and put forward rationalization suggestions so as to promote contemporary social and economic construction as well as the progress of human civilization. From the current situation of information technology in China's schools: teachers' outdated teaching concepts, lack of innovation, and low utilization of network information resources, all these problems seriously hinder the development of educational technology. This paper mainly elaborates the impact of the development of modern education technology on primary and secondary schools, and only through continuous innovation can we provide favorable conditions for the development of modern education technology and promote the construction of informatization in primary and secondary schools.

## Keywords

Modern educational technology, Primary and secondary schools, Efficiency

## 1. Introduction

Modern education technology refers to the exchange of information between people and machines through computers, network communication, etc., so that people can use various means to learn and thus improve work efficiency. In primary and secondary school teaching, the use of multimedia equipment can change the traditional classroom teacher lecture form of monotony and dull phenomenon, it not only can enrich the students' knowledge structure also has interactive function, at the same time it is also conducive to the cultivation of children's good moral quality and healthy psychological quality development, so as to build a socialist harmonious society in the future to provide the basis of talent. Modern education technology is a new concept that not only changes schools and teachers, but also enables students to grow comprehensively and freely in learning.

## 2. The Basic Content of Modern Education Technology

The basic contents of modern education technology mainly include: (Liu Yanhua, 2006) multimedia teaching. The use of modern technology, the text, graphics and other media information for organic combination, so that students can obtain a large amount of knowledge in the classroom. For example, the video materials commonly used in computers can be played to learners using audio or video, and teachers can also use multimedia equipment to teach courses or

learning materials into corresponding graphic materials for students to watch and download; (Jiao Lizhen, Zhong Xiaoliu, Song Shuqiang, Li Xin, Lu Xing, & Li Haixia, 2021). Distance education technology (also called network teaching), which refers to the exchange of information between schools and other public institutions and individuals under certain conditions. The emergence of modern education technology has effectively solved the problems of poor information exchange and lack of teaching resources between schools and parents; Multimedia distance learning. The use of modern network equipment for long-distance, wireless router to transfer various knowledge materials. With the rapid development of modern information technology and huge social progress, information technology has a great influence on the classroom and extracurricular activities of primary and secondary schools. Multimedia equipment provides schools with a colorful and interesting form of curriculum teaching and provides a good platform for modern education, allowing resource sharing between teachers and parents, departments within the school and between business units.

### **3. The Application Requirements of Modern Educational Technology in the Teaching of Primary and Secondary Schools**

#### **3.1 Respect Students' Learning Subject Status**

Modern education technology emphasizes the status of learning subjects. In the traditional teaching mode, the teacher dominates the whole classroom. Information technology in the background of the new era has a great impact on people's ideology, way of thinking and living habits. First, teachers should respect the uniqueness of each student; second, teachers should create an equal and free environment for each child to grow. There are differences among individual students, and teachers should not just pressure him or suppress their personality development, but should respect each student in teaching activities. Teachers can guide students through the teaching process, let them explore knowledge independently and independently, and actively participate in classroom activities, and it is also necessary to strengthen the interaction and communication between teachers and students as well as emotional experience, so as to promote the development of teacher-student relationship for the better. In the traditional model, primary and secondary school teachers are the dominant and cooperative partners, but with the new round of basic education curriculum reform, the implementation of the "Internet+" era has become the mainstream trend of information technology teaching methods. Modern technology has a huge impact on students' learning and life. In the modern education technology environment, teachers can improve their teaching ability in many ways to promote the overall development of students.

#### **3.2 Combining In-class and Out-of-class Teaching and Learning**

The combination of in-class teaching and extra-curricular extension is the application of modern education technology in primary and secondary schools. It mainly includes: multimedia-assisted learning, network resource sharing and cooperative inquiry. (1) Multimedia-assisted learning. It uses Internet technology, teachers can explain knowledge through video or audio, and at the same time, with the help of relevant software, they can show and record the content that is interesting and meaningful to students for reference and use; or teachers can send their own production and pre-preparation to other teachers to watch. (2) Network resource sharing. Using Internet technology, teaching activities are conducted through online learning and independent pre-study before class. Teachers can obtain relevant materials in school or outside school. Students can also watch videos and audios at appropriate times according to their favorite or interested topics; they can also use other media to obtain information; and they can apply what they have learned in practice to exercise their own abilities. (3) Network resource sharing and cooperative inquiry, using Internet technology to upload, share and organize the course content into courseware for teachers' reference.

### **4. The Influence of Modern Educational Technology Development on Primary and Secondary Schools**

The development of modern education technology has a great impact on the physical and mental health, learning interest and knowledge skills of primary and secondary school students. It can not only promote the overall quality of students' abilities, but also cultivate their good moral quality, which makes them important in the future social life.

The impact of the development of modern education technology on primary and secondary schools is mainly manifested in the following aspects:

(1) Promote the reform of school teaching, provide students with independent learning space, so that they can freely choose their favorite or interested topics in the classroom, and it also allows teachers to have more time and energy to understand and guide students.

(2) Change the traditional "duck-fill" teaching method. Modern education technology can transmit information and

communicate through the network, so as to achieve the sharing and dissemination of knowledge, which can bring more benefits to the school and improve the quality of teaching. The integration of information technology with the curriculum allows teachers to use network resources to help modernize traditional teaching methods. Through multimedia and telecommunication, children can have more timely and accurate access to information.

(3) It breaks the contradictory relationship between time and space limitation and time constraint. Due to the emergence and popularity of computer technology and related equipment, students can watch videos and view the content of teachers' lectures anytime and anywhere using the Internet. Modern education technology has a positive effect on the physical and mental health of human beings while improving teaching efficiency. Through information technology, we can let students learn more new knowledge and understand the world (Fan Zhongcai, 2021).

(4) Modern information technology has made it possible for human beings to have richer access to world knowledge and cultural resources, and it has also made it possible for people to have more knowledge and understanding of their own environment, and we can use various media to promote the long and unique and splendid history of our country.

(5) Promote classroom interaction. The development of modern education technology has broken the mode of one-way transmission of information and unilateral instruction of learning between teachers and students in traditional teaching. Classroom teaching is no longer a single transfer of knowledge to the listener, but is guided by the teacher at the podium. This approach not only allows students to gain more novelty and interesting and more vivid visualization of their understanding of the content, but also allows them to better participate in the activities. The development of modern education technology not only puts higher demands on teachers' teaching, but also provides more opportunities for students to participate in learning, active inquiry, communication and cooperation.

## 5. Conclusion

Modern education technology as a new teaching means, it will be abstract, boring or even off track in the traditional sense, breaking the routine and singularity. In primary and secondary school classrooms, the use of multimedia equipment can make students more intuitive to feel the information and knowledge content delivered by teachers. When teaching through information technology, we can also use sound and other media to render and supplement the learning process; enrich the connection between teachers and students and between students with the help of network resources; use video and audio combined with pictures or animation to strengthen the connection between education technology and modern social life, which can improve the teaching efficiency and thus make students more receptive and improve learning efficiency.

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