

the Ministry of Education (202101096022): Construction of a joint laboratory of KQ GEO technologies and Chengdu University of Information Engineering based on “University-Enterprise Cooperation + SPOC + Task-Driven”; Meteorological Soft Science Project of China Meteorological Administration (2022ZZXM22): Discussion on Innovative talent cultivation model for meteorology and related majors based on “Bureau-School Cooperation + SPOC + Task-Driven”.

Table 1. The influence of combining virtual reality technology and GIS teaching reform strategy on geography students’ cognitive impairment

Attribute	Language ability	Attention	Memory ability	Recall ability
Very improved	18	20	19	22
Improve	21	21	20	19
No improvement	11	9	11	9

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EXPLORATION ON THE TEACHING REFORM PATH OF VOCAL MUSIC COURSE IN COLLEGES AND UNIVERSITIES FROM THE PERSPECTIVE OF EDUCATIONAL PSYCHOLOGY

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Background: Educational psychology is an important part of psychological research. It is a psychological theory put forward under the background of teaching reform. It has important theoretical and practical significance in promoting the reform of education system. Educational psychology applies psychological theory to education to improve teaching methods, improve students’ learning enthusiasm and help students solve various problems in the process of learning and growth. In addition, educational psychology is also of great significance to the improvement of educators’ psychological quality and teaching methods. Educational psychology contains many related theories, including psychological content, students’ psychological change law in the learning process, teachers’ analysis and cultivation of students’ learning motivation, teachers’ transfer and promotion of students’ learning, teachers’ analysis of students’ cognitive ability development, teachers’ cultivation of students’ cognitive understanding, students’ memory development, students’ knowledge consolidation methods, students’ cognitive strategy formation Cultivate students’ problem-solving ability and innovation ability, cultivate students’ correct self-consciousness, students’ group psychology and students’ mental health education. Educational psychology has important applications in teaching design, teaching mode improvement, promoting students’ learning motivation and helping students overcome psychological problems. Through educational psychology, teachers can have a deeper understanding of students, improve the pertinence of teaching, adjust teaching methods and teaching methods, and improve teaching quality.

With the development of society, the demand for college talents is not only professional talents, but also the comprehensive quality of students in different industries. Therefore, a large number of colleges and universities began to make teaching reform according to the development of students’ comprehensive quality. In college teaching, vocal music teaching is gradually favored by students. As an important subject in music major, vocal music teaching can greatly improve students’ comprehensive quality. However, with the development of society, the psychological needs of young college students have changed significantly, and the current vocal music teaching is facing great challenges. Traditional vocal music teaching aims at students’ vocal music ability to formulate teaching plans, and takes improving students’ vocal music ability as the main teaching goal. However, traditional teaching methods are difficult to meet students’ psychological needs, which leads to the lack of significant improvement of vocal music teaching quality. In order to improve the quality of vocal music teaching and promote the cultivation of students’ psychological quality in vocal music teaching courses, this paper studies the use of educational psychology to formulate the teaching reform plan of vocal music courses in colleges and universities, in order to provide reference for the teaching reform in colleges and universities.

Objective: This paper analyzes the current situation of the application of educational psychology in colleges and universities, analyzes the current situation and differences of students’ psychology in the teaching of vocal music courses in colleges and universities, evaluates the impact of educational psychology on the teaching reform of vocal music courses in colleges and universities, and puts forward the reform plan

of vocal music teaching under educational psychology.

Subjects and methods: 60 students majoring in vocal music in a school were selected as the research object. The Self-rating Anxiety Scale was used to evaluate the current situation of students' anxiety psychology, and the professional scores of students' vocal music courses were counted. This paper analyzes the influencing factors of students' psychological negative emotions in vocal music teaching, and formulates the reform plan of vocal music teaching according to the influencing factors and educational psychology. 60 students were divided into experimental group and control group. The students in the experimental group were intervened by educational psychology reform scheme, and the students in the control group were taught by conventional teaching mode. The changes of anxiety of the two groups were compared after teaching.

Results: The changes and differences of anxiety scores between the two groups are shown in Table 1. From Table 1, it can be seen that the anxiety scores of students in the experimental group decreased significantly after the intervention of educational psychology, and comparing the anxiety scores of students in the experimental group and the control group after the teaching intervention, it can be found that the scores of students in the experimental group were significantly lower than those in the control group, and the difference was statistically significant ($P < 0.05$).

Table 1. Changes and differences of anxiety between the two groups of students

Project	Before teaching	After teaching	<i>P</i>
Experience group	64.32±2.03	42.57±1.86	<0.05
Control group	63.92±2.17	55.38±1.77	<0.05
<i>P</i>	>0.05	<0.05	-

Conclusions: The healthy growth of college students is an important task in college education. The conventional teaching scheme does not pay much attention to students' learning psychology, which leads to that under the traditional teaching mode, students cannot get their due learning needs in curriculum learning, which hinders the teaching reform of colleges and universities to a certain extent. Therefore, the research takes the teaching of vocal music course in colleges and universities as the research object, introduces educational psychology, uses educational psychology to formulate the teaching reform plan of vocal music course in colleges and universities, and analyzes the changes of students' anxiety under the reform plan. The results show that the psychological anxiety of students who receive the intervention of educational psychology has been alleviated more significantly before and after teaching, indicating that educational psychology can play a positive role in promoting teaching reform. Therefore, in college teaching, we need to flexibly apply educational psychology to formulate teaching reform strategies and improve college teaching quality.

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THE EFFECT OF INTERACTIVE GAME TEACHING ON CHILDREN'S MENTAL HEALTH UNDER THE BACKGROUND OF DEEP LEARNING

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Background: Spiritual and cultural needs are increasingly important in individual growth and development, especially in primary and secondary schools. Many children are facing various pressures from parents, teachers and academic achievements. If they are not timely and effective counseling, it will have adverse consequences on their mental health. Previous studies have shown that in interpersonal communication, emotion and stress management, children are prone to psychological confusion, and even psychological diseases and suicidal tendencies in serious cases. At the same time, primary and secondary school is also a frequent period of other mental diseases. The demand for talents in the new era requires students to be able to develop in an all-round way and have a high level of comprehensive quality. They should not only be physically and mentally healthy, have a strong physique and psychological quality, but also have both ability and political integrity to meet the needs of social development. In order to give full play to the main channel role of interactive game teaching and mental health education, it is particularly important to adhere to the teaching practice of students' deep learning oriented mental health education course based on the deep learning theory. The course takes students as the main body of teaching, takes