

$$y_4 = -0.0048w^2 + 0.4909w + 4.5643$$

Grip (man) and weight fitted equation:

$$y_5 = -0.0082w^2 + 1.4237w - 10.0507$$

Results: By analysis, we have already got weight and height, lung capacity, step, long jump, sit and reach(woman), grip(man)and others fitted equations. According to fitting equations, we can calculate every test item fitting value q according to weight w , and then according to formula, it solves fitting error rate r : formula is as following: $r = (q - p) / q$.

By students' physique model, it scores, and then ranks scores, takes schoolboys pass rate 7.8% that is the school physical health status. In the following, make physical health evaluation on Class one schoolboy, evaluation scores from high to low is as following Table 1:

Table 1. Class one schoolboy's physical health evaluation

Project	Physical health evaluation							
Student number	120001	120011	120004	120023	120006	120020	120008	120005
Score	100.23	94.179	88.845	85.89	84.78	83.99	83.96	83.77
Student number	120014	120015	120013	120016	120022	120019	120010	120009
Score	83.281	82.541	82.478	82.06	81.53	80.44	80.25	80.01
Student number	120012	120007	120002	120017	120021	120003	120018	-
Score	79.99	79.54	78.56	78.52	78.29	77.41	72.17	-

Class one has 23 schoolboys in total, model and qualified amount is $23 \times 7.8\% \approx 2$, that is to say Class one schoolboys only two with student number 120001, 120011 are qualified.

Schoolgirls good amount is $6 \times 2.95\% = 0.177$, qualified amount is $6 \times 31.8\% = 1.9$, it is nearly two schoolgirls are qualified, qualified schoolgirls student numbers are respectively 120024, 120025.

Conclusions: The paper solved weights and reference scores can grasp weights and reference previous results to provide their reference result by oneself accord to school's practical situation, after teachers inputting results in Excel. And then ranks student's results, according to every school practical situation, take respective results-controlled pass rate so that is convenient for scoring students, and further gets students physical health evaluation. The paper applies linear fitting, linear fitting as a common mathematical method in mathematical calculation, the model has been basically applied in building, physics, chemistry, and even astrophysics and aerospace. In general, linear fitting needs to take different fitting degrees according to practical demands; fitting has been widely used in industry, commerce, communication and transportation, engineering technology, public administration and other fields.

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THE IMPLEMENTATION PATH OF PSYCHOLOGICAL PROMOTION OF “FLIPPED CLASSROOM” IN PIANO COMPOSITION TEACHING IN COLLEGES AND UNIVERSITIES

Xuan Zhao

Art College, Dongguan City College, Dongguan 523419, China

Background: The teaching mode of piano works in colleges and universities mostly adopts the traditional teaching mode, which is dominated by teacher lectures, passive acceptance of students, and post-class assignments for consolidation exercises. In the traditional college piano teaching mode, the teaching method is single old, easy to form learning burnout, less communication between teachers and students, and students' innovative ability is not stimulated. This thesis takes the teaching practice of the “flip classroom” of piano works in colleges as the research object. On the basis of summarizing the teaching experience of piano works for many years, it has carried out a lot of research and analysis and discussion, and under the guidance of the research on the teaching theory of piano works in colleges and universities, combined At present, the piano teaching situation faced by colleges and universities is based on the reform mode of piano teaching in colleges and universities, and puts forward a set of systematic and practical implementation of the “flip classroom” teaching path for college pianos.

Subjects and methods: The “flip classroom” teaching mode has the characteristics of asynchronous teaching time, decomposing teaching content and reproducibility of teaching process. The implementation of the “Flip Classroom” mode in the classroom teaching of piano works in colleges and universities is in line

with the practical characteristics of the piano teaching classroom. This paper takes the practice path of the “flip classroom” teaching work of college piano works as the research object. Because of summing up the training work experience over the years, it has carried out a lot of research and analysis and discussion under the guidance of the theoretical study of piano teaching in colleges and universities. The piano teaching situation faced by colleges and universities has proposed a set of relatively systematic and practical implementation of the piano teaching “flip classroom” teaching implementation path.

Results: The implementation path of “flip classroom” in colleges and universities is a general term for various teaching modes, including the overall teaching mode, competitive teaching mode and functional teaching mode, as well as the development of teaching mode, resource development teaching mode, technology development teaching mode, and talent development teaching.

Through the establishment of systematic teaching evaluation method of college piano works “flip Classroom”, it can not only measure the teaching effect of piano works, but also see the defects and deficiencies in the piano teaching system, so as to improve the teaching work of piano works in the future, and ensure teaching work of the “flip classroom” of piano works in colleges and universities has achieved the intended goals and can be developed in the long run. The evaluation of the teaching of piano works refers to the use of scientific theories, techniques, methods and procedures to systematically assess and examine the conception, design, implementation process and practical effects of the teaching subjects and teaching activities of piano works, as shown in Table 1.

Table 1. Teaching implementation process and practical effect of “flip classroom” in college piano works

	Method_1	Method_2	Method_3	Method_4	Method_5
Result_1	0.6524	0.9439	0.6516	0.6514	0.6511
Result_2	0.6243	0.6963	0.6246	0.6248	0.6244
Result_3	0.954	0.9627	0.9251	0.9147	0.914
Result_4	0.9147	0.9697	0.9141	0.914	0.9142
Result_5	0.9241	0.9378	0.8793	0.8775	0.8776
Result_6	0.9914	0.9979	0.9916	0.9917	0.9916
Result_7	0.8486	0.8719	0.7981	0.7913	0.7912

From the perspective of the teaching implementation process and practical effect of the “flip classroom” of the piano works in Table 1, and the evaluation of piano works teaching is the application of this socialized means and technology in the field of piano works teaching, and the effect of colleges on the teaching project of their own piano works. The evaluation also draws on and uses this method and means to comprehensively identify and master the teaching quality of the “flip classroom” of piano works in colleges and universities.

Conclusions: Choosing teaching content in the teaching classroom mode of flipping classroom piano works is the primary link in organizing teaching. The reasonable choice of teaching content has a crucial influence on the teaching effect. First, it is necessary to select the teaching content for the difficult points raised by the students in line with the specific circumstances of the students. This thesis takes the practice of the teaching work of the “flip classroom” of piano works in colleges as the research object. Based on making full use of the teaching theory of piano works, conducting a lot of research and discussion, and deeply analyzing the problems and causes of the teaching work of the “flip classroom” of piano works in colleges and universities. At present, the teaching mode of colleges and universities and the implementation path of piano works are the guidance, and a set of systematic implementations of the “flip classroom” teaching practice of college piano works is proposed, in order to provide theoretical guidance and practice for the university to carry out the teaching work of “flip classroom” of piano works in colleges and universities.

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DIGITAL PAINTING ART AND TRADITIONAL ART DESIGN MASS PSYCHOLOGY TO PROMOTE INTEGRATION AND INNOVATION

Bo Sun

Department of Animation Art, Zibo Vocational Institute, Zibo 255300, China

Background: In the historical trend of the development of social progress, art as a special spiritual