# On the Second Classroom Reform of Higher Mathematics in the New Media Environment

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**Abstract:** through the Exploration of the Learning Mode Outside the Traditional Classroom, Combined with the Current Campus Media Environment and the Guiding Ideology of Higher Education Reform, This Paper Puts Forward the Idea of Learning College Mathematics At Any Time and Conveniently under the Current Campus Environment, and is Committed to Exploring and Improving the Extracurricular Interaction between Teachers and Students in Colleges and Universities.

## **1. Introduction**

With the Maturity of Campus Network Coverage and the Popularization of Campus Social Network, Social Learning Has Gradually Become the Main Mode of Contemporary College Students' Learning. Nowadays, College Students Are No Longer Confined to the Classroom, Library Self-Study Consolidated Learning Mode. with Convenient Campus Network, Students Can Watch Micro Class and Short Video Anytime and Anywhere [1]. It is the Second Window for the Contemporary College Students to Increase Their Knowledge to Exchange Their Learning Experience and Participate in the Academic Salon. University Teachers Are No Longer Just through the Classroom 45 Minutes to Instill Professional Ideas, "Flipped Classroom", "Smart Classroom" and the Traditional Classroom Gradually Coordinated Development into the Regular Mode of University Teaching. the Era of Learning for All Has Come [2]. the Role of Teachers is to Guide the Research Direction of Students and Provide Dynamic Research Objectives. It is Particularly Prominent to Obtain Learning Information Anytime and Anywhere.

# 2. Spread College Mathematics Learning in Every Corner of the Campus

The Current Situation of College Students Learning Mathematics is That They Can't Complete a Large Number of Exercises to Consolidate Knowledge Points According to the Learning Method of High School Mathematics in a Limited Classroom Time, and College Teachers Can't Enjoy Repeated Practice and Reinforcement for Each Knowledge Point as High School Classroom Does. Higher Mathematics Involves Many Knowledge Points, Many of Which Are Difficult. without a Learning Environment of Two-Way Output, Students Are Likely to Turn Their Horns or Fail to Learn. by Using the Advantages of Online Courses, Students Can Learn and Consolidate without the Limitation of Time and Place. Using Social Platforms for Communication (Such as Qq Group, Wechat) Can Facilitate the Mastery of Current Learning Dynamics, and Collaborative Breakthrough of Error Prone Knowledge is More Difficult. When College Students Are the Main Force Growing Up in the Internet Environment, They Have a Natural Affinity to Social Networks, and Online Communication Ability is Generally Stronger Than Offline Communication and Interaction [3]. However, the Emphasis of Contemporary Higher Education is on the Cultivation of Personality and the Cultivation of Complete and Sound Personality According to Students' Aptitude. through the Social Platform to Release Learning Tasks, Students Feedback Learning Information, Teachers Have Targeted Explanations Become the Focus of the Classroom. for Example, When the Teacher is Explaining the "Application of Bayesian Formula" in Probability Theory in Mathematical Statistics, the Teacher Now Posts the Message "Embodiment of Bayesian Formula Life" on Wechat Public Platform [4]. Students Find That Many Phenomena Can Be Explained by Bayesian Formula through Online Query, But What is Bayesian Formula? How to Quantify It? with Such a Problem, We Start to Review from the Prior Probability, Then Use the Quantitative Examples to Lead to the Application Solution, Summarize "Bayes Formula" through Examples, and Then Give the Generalization Proof. in This Way, the Original Complex Generalization and Abstract Formula Definition Are Solved by Examples.

Serial number	Activity type	Credit calculation standard	Maximum cumulative credit limit
1	Discipline competition	0.2-1	0
2	Scientific research practice	2-5	0
3	Special lectures	4	2
4	Professional ability development	3	3

Table 1 Credit Calculation Standard for Elective Activities in the Second Class

#### 3. Wechat Public Platform Launched "Daily Topic"

It is the focus of the classroom reform to set up the relevant public numbers, regularly launch the frontiers of disciplines, push the learning process regularly, and release classroom learning tasks. Under the premise of not increasing the running burden of students' mobile terminal (wechat public platform embedded in wechat, students do not need to download other apps), to achieve the purpose of learning after class [5]. Compared with QQ group, wechat public platform not only spreads widely, but also has a better reading experience for users who upload files.

#### 3.1 Wechat Public Platform Communication Advantages

We chat public platform can edit the original document and insert it into a form acceptable to students for re release. It is easier for students to browse such graphic information. The data collected by praise can give feedback to teachers on whether the quality of pictures and texts can play a positive role in students' learning, so as to remind teachers of corresponding improvement measures.

#### 3.2 Wechat Public Issue Launches "Daily Topic"

At the same time of improving the subject quality, the platform is used to launch a daily question. Students can consolidate after class without relying on textbooks at ordinary times, making learning a normal state. Practice a topic every day to get used to the learning behavior that was originally limited by class hours. While giving the title, we provide the reader's answer by using the automatic reply function of WeChat public number, and finish the self test of the topic, and the error correction is improved [6].



Fig.1 Number of Points Deducted for Each Score Segment

#### 3.3 Wechat Community Thought

For unfamiliar knowledge, it is difficult to distinguish knowledge, which can be posted by teachers in the "wechat community" building of wechat bulletin number user-defined menu to form community discussion. Users of this community are not limited to learning this course first. Previous students will reply to similar questions and get rich, so as to extend the learning length.

Students who are always in the state of speculation are more likely to accept the subject and thus more interested. "From time to time, the community will also top the curriculum hot spots of some brother colleges, causing students to discuss and think.

Methodology teaching has experienced a new technological revolution and a wave of knowledge. It is no longer suitable for universities to pay attention to the teaching method of knowledge and the learning method of only relying on the brain to store knowledge. Teachers should teach students how to learn, and cultivate their ability to acquire knowledge, so that students can benefit for life. -Our second class, advanced learning method guidance, is to help students adapt to the learning style of the University as soon as possible [7]. In the activity, we teach students that to really learn mathematics well, only through their own thinking to establish their own mathematical understanding ability, students must understand mathematics through practice, and strengthen their understanding of mathematics through problem-solving, discussion, student explanation, practice, self induction and summary, report and other forms. At the same time, we should warn students to learn mathematics, not simply record and remember what teachers teach, but a process of re creation and re discovery. We should learn the thinking method of mathematics from the study of mathematics knowledge. In order to master mathematics, we must use the method of inner creation and experience to study mathematics, and guide students to study consciously by inspiration. In the activity teaching, we should adopt the non indoctrination teaching method, add more guidance, and give full play to the students' subjective initiative. ""Self study is the best way of learning in life". Students are often introduced to read some relevant reference books to cultivate their self-study ability. Often in the activities to introduce students to some specific methods of learning high numbers. For example, the best way to solve complex problems is to decompose them into a series of basic skills; how to review, etc., so that students can master a basic skill and learn some learning methods in each activity, so that students can establish good digital self-confidence and learn how to learn [8].

# 4. Using "Three Micro" to Spread Mathematics Culture and Improve Mathematics Literacy of College Students

The difficulty of learning mathematics faced by ordinary college students is not only more knowledge points, more difficult to master, less learning time, but also the problem of learning interest. Using the affinity of social network, teachers can refine the reward mechanism. However, the survey shows that with the increase of grade, the learning time allocated to public courses will decrease step by step, while the dependence of college students on social network will increase.

On the premise that we hat public platform launched the combination of "one question per day", students were mobilized to have community discussion. We will regularly reprint the research trends, subject prospect analysis, niuren courses and other contents of public mathematics related majors on the microblog. In the near future, the pilot discipline plans to launch the "golden course" micro video, which will increase the interest of the discipline in the form of short video, and solve the problem of students' non targeted and non interactive viewing of online courses. The short videos of relevant courses will be launched in the form of microblog and we hat public platform to increase students' sense of participation [9]. Analyze the background data of we hat public platform, adjust and improve the courses, increase the depth of knowledge and enhance the viewing.

In the second classroom teaching activities, I pay attention to the following abilities: after each activity, I will arrange some typical problems with certain difficulty for students to think. In the second activity, I will discuss ideas, skills and solutions so that students can express their ideas accurately in mathematical language. The cultivation of inductive analogy ability has always been a special topic. I only talk about my own ideas and ideas for students to refer to. I ask students to go back and write a summary according to their learning experience, so as to systematize their knowledge and improve their understanding of mathematics. Each activity will give students some practical problems and inspire them how to use the mathematics knowledge to analyze and solve practical problems. The cultivation of abstract thinking ability aims at the students' wrong views and one-sided understanding when they study and use the basic concepts. Through the right and

wrong analysis, discussion and discrimination of these problems, they can choose the corresponding basis of concept problems, consolidate the concepts and improve the students' thinking ability. Qiu's comprehensive analysis ability training selects some comprehensive examples. Through the analysis, stimulate and summarize the students' solution ideas, and cultivate the students' comprehensive analysis ability. This activity has a set of basic skills and basic knowledge exercises. Students must finish the exercise in ten minutes. When students express their opinions, they can test their learning situation and strengthen the training of basic skills. At the end of each semester, students are required to write a summary about the achievements of participating activities. You can also write small mathematical papers. Many students won awards at the school's ideological and Academic Festival.

## 5. Conclusion

In the new era of classroom reform, college teachers are required to analyze students' interest mode while analyzing students' learning situation comprehensively. With the students becoming the mainstream of campus after zero, these network aborigines grew up in the changing Internet environment, skilled and emotional in the application of social media. College teachers adapt to the current students by adjusting the classroom distribution ratio.

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