Construction of Teaching Model Based on Micro Course Teaching

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Abstract. Before class, let the students see the micro video, or called the micro course, make full use of teaching materials and network resources. In class, give students enough time to discuss and explore activities. In this way, we construct a kind of flipped classroom teaching mode. This kind of teaching mode embodies the student centered teaching and learning, which not only stimulates the students' interest in further exploration, but also improves the students' inquiry ability.

Introduction

With the development of information technology, teachers' teaching methods and students' learning styles are changing greatly. Especially in recent years, social media, mobile communication technology rapid development, the form of educational resources of the fragmentation, miniaturization and theme tendency, makes various types of micro teaching practice to spread like a raging fire. The micro course is a short, complete teaching activity which is based on the micro video as the main carrier to record the teachers around a certain knowledge or teaching links. Through the micro course, the students can carry on the independent study and the thought before class, and in class can be added to the interactive part of the discussion. The development of micro course adapt to the requirements of the development of education information is a revolution in the development of the times, the construction of teaching resources, but also the traditional teaching method and teaching methods of reform, is a kind of new teaching mode. Therefore, in the current educational reform, it is of great significance to study how to apply the new things in the field of education to our teaching, both in theory and in practice.

Definition of Teaching Model

The teaching mode is a relatively stable, systematic and theoretical teaching paradigm, which is formed under the guidance of a certain teaching idea. Teaching mode is an integrated system which integrates teaching method, teaching means and teaching organization form A specific teaching model generally includes a number of factors, such as the theoretical basis, themes and objectives, operating procedures, implementation conditions and teaching evaluation. Most of the traditional teaching mode is teacher centered, emphasizing the leading role of teachers, teachers in the classroom lectures, homework assignments, so that students practice. Different from the traditional classroom teaching mode, pay attention to the dominant position of students, let students complete the learning first before class, the classroom becomes the interaction between teachers and students between students and students, including answering questions, the use of knowledge, so as to achieve better educational effect. This kind of teaching mode is "flipped class teaching mode". To achieve flip classroom, a prerequisite is to have a micro course. Because the micro course is mainly based on micro video teaching, so you can let the student learn knowledge by the micro video before class, and then to achieve teacher-student, students between learning and discussion in class, to solve the layout the task list and students self questioning.

Through the above analysis, we can see that the micro course can be combined with the flipped class, it can be said that the micro course is applied to the flipped class teaching mode. We might as well turn this kind of teaching mode based on the micro course teaching as "the micro course +
flipped class". Since it is defined as a kind of teaching mode, it has some basic elements of teaching mode, including the theoretical basis, objectives, basic procedures and conditions.

**Theoretical Basis of Teaching Model**

**Bruner's Discovery Learning Theory**

Bruner believes that teaching is a process that students under the guidance of teachers, learning is to rely on the discovery, teachers or textbooks require students to use the materials provided to take the initiative to learn, students self thinking, explore and discover things, rather than passively accept knowledge. Students are not passive recipients of knowledge, but active information processors. The main task of the teacher is not to teach students the ready-made knowledge, but to create conditions for students to find activities, provide support.

**Piaget's Constructivist Learning Theory**

Constructivism (constructivism), also translated into structuralism, is a branch of cognitive psychology. Constructivism advocates students centered, emphasizing to students' active exploration and discovery of knowledge significance of active construction (unlike the traditional teaching, is to transfer knowledge from teacher to students in the minds of the notes). In the process of teaching to student-centered, students are the subjects of cognition, is the active constructors of knowledge, teachers only significance of the construction of students help and promote, does not require teachers to teach students and instill knowledge directly. Teachers should create a good learning environment for students to provide a variety of information sources. The teacher is the helper, facilitator, supporter, guide and evaluator of meaning construction.

**The Goal of Teaching Model**

Any teaching model has a certain goal, it is the theme of the teaching model of the specific. The theme of the so-called teaching mode is the main factor that runs through and dominates the whole teaching mode. The theme of the teaching mode of "micro course + flipped class" is "student centered teaching and learning" All the teaching activities, including the teacher design task list, the organization of students through the completion of the micro video before the completion of self-study courses, as well as the completion of the class discussion and review of the class are around the theme of the. The theme of the specific teaching model is the goal, that is, the theme of the task. “Micro class + flipped class” teaching mode is the goal of teachers actively adapt to the requirements of the development of education the development of the information age, change the concept of teaching, highlight the dominant position of students, the class and the teaching behavior of the class under the flip, promote students to change their learning style, to promote the effective learning behavior, the formation of" learning "student centered teaching, thus cultivating students' inquiry ability and innovation spirit.

**Basic Teaching Procedure**

The first step is preparation. Before class, in order to know the students, teachers focus on understanding the needs of students and learning needs, to prepare for the targeted teaching design.

The second step is the teacher's teaching design. The teacher carries on the teaching design, according to the teaching content to make the student independent study task list, makes the micro teaching video frequency, and creates a self study environment for the student.

The third step is students' Autonomous learning. Students watch the video before class, master the basic content. The need to solve the problems in the video, not directly by teachers tell the students how to solve problems, but by teachers to provide students with autonomous learning tasks, to solve the problem of the target and the relevant clues, let the students develop their autonomous learning ability.

The fourth step is teachers and students in class teaching interaction is discussed in class. The
contents of the discussion are mainly two aspects: first, the students cannot understand the contents of the discussion, so through collaborative learning, discussion, exchange, in-depth knowledge. The two is the teacher according to the teaching content, generally for the emphasis and difficulty of teaching design discussion questions, to discuss and explore the development of grouping students, under the guidance of teachers, students' self summary in terms of knowledge harvest and harvest methods in scientific inquiry.

The fifth step is effect evaluation. The learning process is the process of solving the problem, which can directly reflect the students' learning effect. Therefore, the evaluation of this teaching effect does not need to be independent of the teaching process of specialized tests, just in the learning process at any time to observe and record the performance of students can be.

The sixth step, after-school summary and discussion.

Summary
Generally speaking, let students improve autonomous learning ability by watching the micro video before class, and make them actively participate in the discussion in class, so we construct a flipped class teaching mode based on a micro course. In this kind of teaching mode, the micro course is placed in the whole of the teaching design, the self-study before class, the study on the class and the review and summary after class.

References