

**Empirical Research Of Communicating and Learning "Natural Diary"  
Platform of Microblogging-style in natural science curriculum of primary  
school**

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**Abstract:** Aim at the current situation of lacking teaching resource and poor migration of course knowledge in natural science curriculum of Chinese primary school, the thesis design and research a platform which adopts the popular Microblogging-style recently that can help students study at anywhere of anytime, achieving shared social type learning with the interaction between students on the platform .Empirical research is launched in some primary school students based on the platform. The research shows that students strengthen their interest on natural science and the awareness of initiative exploring and sharing through their study on the platform, demonstrating the function of the learning platform which based on the idea of learning in practice and sharing.

**Keywords:** *natural science, Microblogging-style, sharing, interaction learning, empirical research*

## **1 Research Background**

The natural science course is an important enlightenment of science course in primary school. The knowledge taught in natural course of primary school are some of the most basic natural common sense, but involves a wide range, astronomy, geography, physics, chemistry, biology, everything is contained therein. At the same time, and also is the foundation of knowledge, geography, chemistry, biology. According to the Ministry of Education issued the new course standard, the natural science course of primary school has been renamed to the primary school science class.

Therefore, for the contemporary students, good natural course, learn the knowledge of natural science, to train the student's observation ability, training students to love natural science, also can strengthen the primary natural quality, in order to cultivate and improve children's scientific literacy, for the future of children with the high scientific quality, positive innovation, active exploration to contribute to quality for the scientific construction in China; in addition, it can foster the students awareness of environmental protection, great role to recognize good environment for human.

## **2 Natural diary**

Natural diary is an important content of natural extracurricular activities, is to learn the natural course, good method to train the students' interest in science and exploration spirit. Scientists Darwin was able to write the immortal masterpiece "evolution" is a science with him all the year round in nature diary inseparable. Cultivate the children love science, science of science, with good quality, in addition to relying on the main channel of classroom teaching, learning to write diary note of natural, natural diary, is also a kind of effective measures.

Micro-blog "natural diary" is mentioned in this paper, through the specific technique of client and network platform, in particular the network range, recording and uploading natural phenomenon that students observe whenever and wherever possible. Students can form a group on the network platform to discuss, the teacher can also gives the corresponding comments, to improve the natural diary and analysis, compare or research the natural phenomenon.

## **3"Micro-blog" natural learning**

Micro-blog is a kind of opening Internet social service with the rise of Web 2.0, which allows users to update their status in short text whenever and wherever possible, the length of each message can't more than 140 words, supporting pictures, audio, video and other multimedias' publishing, each user is micro content creators, also micro content dissemination and sharer.

### **3.1 The main characteristics of micro-blog.**

(1) Flexible and convenient communication. Micro-blog breaks the lines between mobile communication network and Internet, through the opening API, make a variety of publishing ways (released desktop client, browsers, mobile devices) an organic integration, and thus support the ubiquitous communication.

(2) Supporting "desire to express". In modern life, social information explosive growth, accelerate the pace of work, but the expression of the desire for communication has always existed, and micro-blog on the most simple, free way to meet the needs of the people.

(3) Innovative Propagation mechanism. Through innovative "attention" mechanism and easy pushing , micro-blog makes share information and communication the best function.

### **3.2 Application of micro-blog in natural education in primary school**

#### **1 New teacher-student communication tools**

Teachers can create a class, and have administrator permissions can whenever and wherever possible, uploading the life experience, teaching experience, teaching plan, classroom observation, research results by the

text, multimedia and so on through the micro-blog. After students join the class, they can put a burst of inspiration, confusion in the micro-blog and interact with teachers and the other students, learning the knowledge with the influence of their environment.

2 Interest group platform

Through joining and creating interest group, one topic can be locked in one field, such as: can create "My plant", "a day of swallow" and other groups. The group is a relatively closed circle, publish and receive information more targeted, the enthusiasm of the members will be higher, with more frequent interaction, learning efficiency will be better.

4 Case research using micro-blog natural diary

This study is mainly engaged in the following several aspects of the work:

1 Using the recent popular "micro-blog", establish interactive learning platform for students' natural theme, both mobile phone client and PC version of the network platform;

2 After completing the development of mobile phone client and PC platform, test the platform by primary school students , perfect the platform according the feedback information collected by the test.

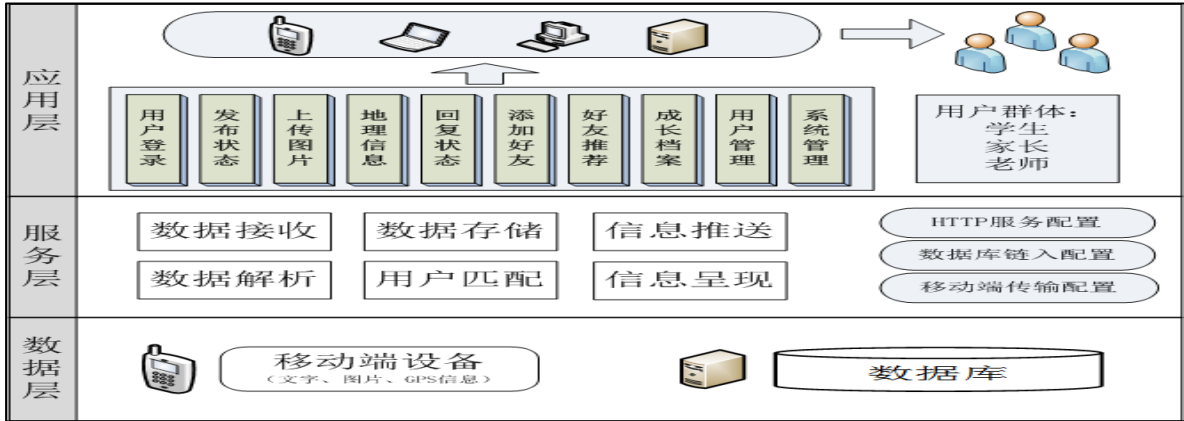


Fig. 1 the platform function structure diagram

After the platform is developed, we put it to the primary school a preliminary test, and collect some data to analyze and evaluate the effect of the platform.

For students, after using "natural diary" learning platform, the majority of students like the natural course better. Among them, 89% of the students think they love science class after using the platform, 82% of the students think that they are interested in science class. At the same time, many students also used the "natural diary" platform to strengthen communication friendship. Among them, 90% of the students said they like to share their photos, 84% of the students said they often browse students photos and comments. Some students also said, they are more willing to learn science knowledge to solve problems in life.

Through the above analysis, we can see, after using the micro-blog of this kind of new media, for teachers and students, two have great role in promoting. For the teacher's teaching, the use of new media, allows teachers to adopt a more vivid way to show the course, to stimulate students interest in learning, improve teaching effectiveness and efficiency; for student learning, the use of new media, especially the development of mobile terminal of mobile phone, students can study whenever and wherever possible, truly achieve ubiquitous learning concept, which is the trend of the development of lifelong learning society. Besides, when the students are learning in this kind of new media, they also can understand each other and share the harvest, collaborative learning on the platform, in order to construct meaningful knowledge.

Literature Reference

[1]. GottR. (1996) . science in the Mid-1990s. Education in the 1990s.  
 [2]. KlopferL.E. (2010).The International Encyclopedia of Education. Scienfic literacy.