

SPA-175

## **A Case Study of An Elementary School Teacher using Makey Makey for Music Creating**

*Yu-Hsuan Liu*

*Master student, National Taichung University of Education, Taiwan.*

### **Abstract**

The purpose of this research aims to discuss an elementary school teacher using Makey Makey to music creating activities as well as student's learning outcomes and learning interest in using Makey Makey. Since 2001, Taiwan has officially promoted the integration of Information Technology as a supplementary medium into teaching various subjects. Ministry of Education encourages teachers to develop different teaching strategies and utilize devices to integrate Information Technology into music teaching. Makey Makey is a control board that can be programmed or combined with software to interact with various conductive materials through a computer.

Researcher makes a case study to investigate the curriculum design, teaching interactions, as well as student learning outcomes and interest in a 6<sup>th</sup> grade music classes in an elementary school. Data collection includes classroom observation records, audio-visual recording equipment, interviews, and so on. The observed teacher is the special artistic director in the elementary school who has 50-year experiences in teaching music, chorus, dance, drama and other arts integrated courses. Orff approach is introduced as music instruction in observed elementary school, while music creating plays an important role in upper grades because of their readiness of solid musical ability.

There is a lack of academic literature on Makey Makey. Although there are cases of application in various disciplines, very few applications in music teaching are shown. For those who intend to prepare Makey Makey music lessons, they need to work with teachers from other disciplines or form "teaching teams" to conceptualize teaching and implementation. This study is still in progress and we expect to see the implementation of the teaching to enhance students' creativity and interest in learning. Research on the integration of information technology into music teaching is still developing, and we hope that more research will be conducted to make better use of technology in music education.

The expected results of this case study are as follows:

1. Students enjoy music creating rather than afraid of it after learning from the case teacher.
2. The assistance of Makey Makey can stimulate student's motivation in learning music.
3. Students' musical ability has impact on their development of music creating.
4. When music teachers instruct music composition, results of students' music creating are limited to time and requirements of the composition.
5. By using Makey Makey and carrying out creative ideas for teaching, we are able to integrate different disciplines and present cross-disciplinary learning in music class.