Mobile Learning in Taiwan

Ministry of Education M-Learning Project host

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Outline

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Beginning

• Student use of personal handheld devices in learning will become popular

• Reduce costs

• M-learning environment has become an important trend
M-learning is a learning model that allows the learner to access learning materials anywhere and at any time.

Learning across spaces.
• Increased student involvement and motivation, knowledge creating, language development and learning, collaboration, global awareness, effective costs, and time management

• There are 201 primary and secondary schools participating in M-learning program in Taiwan
Beginning

• Team collaboration, creative thinking, critical thinking, and problem-solving, and communication

• M-learning in Taiwan video
Project Objective

1. Develop mobile learning strategies.
2. Create features of IT applications for schools.
Helps schools understand their readiness of mobile learning

Helps schools develop IT application features

Professors provide in-depth guidance at schools
Mobile Learning Strategies

A  Peer assessment strategy
B  Graphics assisted strategy
C  Video-based teaching strategy
D  Presentation strategy
E  Immediate feedback strategy
F  Testing practice strategy
Mobile Learning Strategies

G | Data collection strategy
H | Game-based learning strategy
I | Interaction and discussion strategy
J | History documentation strategy
K | Mind mapping strategy
L | Blended Learning
What is Blended Learning?

- Blended learning as the convergence between traditional face-to-face learning environments and computer-mediated learning environments
- Combining instructional modalities
- Combining instructional methods
- Combining online learning and face-to-face instruction
Bookend Blend

• Introductory experience online. (M-Learning)
  • online self-paced learning to acquire background information

• Teach subject knowledge face-to-face.
  • face-to-face learning focused on active learning and application experiences

• Extend the learning into practice at work. (M-Learning)
  • online learning and support for transferring the learning to the workplace environment
Why Blended Learning?

• pedagogical richness
• access to knowledge
• social interaction
• increased access and flexibility
• increased cost-effectiveness
• ease of revision
At present, **201 schools** are participating in the Mobile Learning program in Taiwan.
Participation Schools

Taipei City - 13 schools

- 玉成國小
- 永吉國中
- 健康國小
- 辛亥國小
- 明湖國小
- 麗山國中
- 龍門國中
- 南湖國小
- 仁愛國中
- 幸安國小
- 南港國小
- 大同國小
- 文昌國小
Participation Schools

New Taipei City-21 schools

- 白雲國小
- 中港國小
- 崇林國中
- 成福國小
- 三芝國中
- 及人高中(國中部)
- 科園國小
- 光華國中
- 長坑國小
- 屈尺國小
- 五寮國小
- 新竹國小
- 竹光國中
- 三民國中
- 米倉國小
- 昌福國小
- 鳳鳴國小
- 義學國小
- 瑞芳國小
- 明志國中
- 清水國中
Taoyuan City - 5 schools

大埔國小
中興國小
義盛國小
樹林國小
石門國小
Participation Schools

**Hsinchu County - 10 schools**
- 新光國小
- 東安國小
- 五龍國小
- 博愛國中
- 十興國小
- 東興國小
- 豐田國小
- 芫林國中
- 精華國中
- 新埔國中

**Hsinchu City - 6 schools**
- 新竹國小
- 竹光國中
- 三民國中
- 茄苳國小
- 南寮國小
- 虎林國中
Participation Schools

Miaoli County-8 schools

- 武榮國小
- 新港國小
- 後龍國小
- 中山國小
- 建中國小
- 同光國小
- 新港國中
- 中興國小
Participation Schools

Taichung City-6 schools

大鵬國小
華龍國小
東寶國小
長安國小
上石國小
惠文高中
Participation Schools
Participation Schools

Yunlin County - 2 schools
成功國小
斗南國中
Participation Schools

Chiayi City-9 schools
北園國小
興安國小
民族國小
嘉義大學附小
志航國小

Chiayi County-4 schools
六嘉國中
義竹國小
梅山國中
東榮國小
Participation Schools

Tainan City - 21 schools

- 新進國小
- 大橋國中
- 長興國小
- 德南國小
- 岸內國小
- 青草國小
- 喜樹國小
- 北門國小
- 東區東光國小

- 海東國小
- 億載國小
- 和順國中
- 東區順利國小
- 大成國中
- 虎山國小
- 西門國小
- 樹林國小
- 東區復興國小
- 深坑國小
- 東區大同國小
- 東區大同國小
- 東區大同國小
 Participation Schools

Kaohsiung City-16 schools
左營國小
加昌國小
旗山國小
路竹高中(國中部)
大同國小
後勁國小
中山國小
大華國小
苓雅國中
燕巢國中
林園國中
福山國小
中正高中
博愛國小
景義國小
立志高中
Participation Schools

Pingtung County-6 schools

- Wan Dan Country Primary School
- Gao Shu Country Primary School
- Nan Rong Country High School
- Tang Rong Country Primary School
- He Ping Country Primary School
- Ling Yun Country Primary School
Participation Schools

Ilan County - 12 schools

- 玉田國小
- 中山國小
- 順安國小
- 羅東國小
- 北成國小
- 黎明國小
- 金洋國小
- 壯圍國中
- 順安國中
- 南山國小
- 凱旋國小
- 宜蘭國中
Participation Schools

Hualien County - 13 schools

富源國小
北昌國小
萬榮國中
復興國小
新城國小
太平國小
和平國小

長良國小
豐濱國小
自強國中
鶴岡國小
忠孝國小
石門國小
Participation Schools

Taitung County - 7 schools

康樂國小
大王國小
太平國小
新生國小
大武國小
溫泉國小
賓朗國小
Participation Schools

Nantou County-15 schools

名間國中
大成國小
南投國中
康壽國小
僑光國小
僑光國小
南投國小
成城國小
新民國小
光華國小
魚池國中
宏仁國中
忠正國小
前山國小
信義國中
水里國中
Participation Schools

Penghu County-2 schools
文光國中
忠正國小

Kinmen County-5 schools
中正國小
開瑄國小
金湖國小
賢庵國小
金沙國小
Jhong Jheng Elementary School

- Animation 1
- Animation 2
- Animation 3
- Animation 4
- Animation 5
- Students introduce Cheng Huang Temple
Love in Taitung

Kang Le Elementary School

You can understand a place through different ways, such as good food, scenery, festivals, historical sites.

Kang Le Elementary School hopes to bring kids with their mobile devices and get to know Taitung with “love.”

Most families in this school are low-income households. There is relatively less cultural stimulus due to the remote location of the school, and students lack confidence and have poor learning intention.
Students in higher grades are currently in the important stage of personality development of pondering “what kind of person they want to become.” All of the “everyday heroes” in the “Love in Taitung” Plan are accessible and observable by students.

Their hard work in becoming their ideal self can serve as an example for students to learn from.

The five steps “observe, collect, judge, share, and act” allow students to learn about Taitung with “love.”
Love in Taitung
Kang Le Elementary School

Taitung beautiful beach

360 degree scene photography
Love in Taitung
Kang Le Elementary School

Taitung beautiful beach
Expert interview
Love in Taitung
Kang Le Elementary School

Pollution-free crops

Dried fruit
Teachers design activities to use mobile devices for teaching, and utilize the characteristics of mobile devices to offer students a learning experience not limited by time and space.

In which the lesson “Love for land” uses the topic of organic agriculture for exploration. They visited A-rong Natural Farm, which uses “Shumei Natural Agriculture,” emphasizing respect for nature and conforming to nature. Besides using natural fertilizer, no other impure substances are added, so that the soil is clean.
Love in Taitung

Kang Le Elementary School

Spring Trading Company uses local agricultural products to make all natural fresh fruit popsicles.

Secret Base Tea Garden uses organic agriculture and its farming method to grow Dah Yeh Oolong.

These farmers use the most natural way to provide the healthiest foods for us and allow us to understand the hard work involved in agriculture. We hope to promote their ideas to reach even more people.
Love in Taitung
Kang Le Elementary School

A-rong Natural Farm
Love in Taitung
Kang Le Elementary School

A-rong Natural Farm
Love in Taitung
Kang Le Elementary School

A-rong Natural Farm
Love in Taitung
Kang Le Elementary School

Expert explanation
Make natural fresh fruit popsicles
Love in Taitung
Kang Le Elementary School

Secret Base Tea Garden

Dah Yeh Oolong
Love in Taitung

Kang Le Elementary School

Group discussion
Love in Taitung
Kang Le Elementary School

Group presentation
Love in Taitung

Kang Le Elementary School

Result presentation
Love in Taitung
Kang Le Elementary School

Film appreciation

Mobile learning breaks through limitations of textbooks and classrooms; Pads take children on a series of exploratory activities.

Schools will utilize local resources to make the connection with the daily life of children so that children can learn from doing, and develop their learning and other key abilities through practice.
The example of “Love in Taitung” not only teaches children the stories of people, but also values in life; they not only learn IT applications, but also how to learn about the world.

This makes students their master in learning.
Augmented Reality

• Consolidated communications technology to add information to real-world items, or ways to observe the world.

• Add virtual information to existing physical objects or fields.

• Students can use AR technology interact with teachers in the classroom, making learning interesting, so that learning becomes lively and interesting, is a trend of education.
Using Augmented Reality Technology in M-Learning

- AR Flashcards
- Anatomy 4D
- 4D Elements
- Quiver
Kahoot time!

Thank you
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