Effects of Integrative IWBs in Basic Education Level

Varee Chiangmai School - CMU co-operation
Sorapong Somsorn
About this Research

• Varee Chiangmai School - ITSC CMU

• Study the effects of integrative IWBs in Primary school

• Thailand Basic Education Core Curriculum
About Varee Chiangmai School

- Varee Chiangmai School provides from kindergarten, primary and secondary levels

- All levels study following the Basic Education Core Curriculum

- School facilities; Projector, Sound, Microphone, WI-FI, Computer

- IWB built-in every classroom

- Most of teachers lack of confidence to use IWB

- Most of teachers used IWB as presentation tools (teacher-centered)
Purposes of Research

• To study the results of integrating Interactive White Board in teaching and learning

1. Students' achievement
2. Students' behavior
3. Students' attitude
Research Design

• Primary students
Research Design

- 6 Learning subjects

  - Math
  - ICT
  - Thai language
  - PE
  - Arts
  - English language
Research Design

- Tools: Interactive White Board, Learning Media, VDO camera
Procedure

Preparation → Implementation → Reflection
Preparation

- Choose 6 teachers to be pilot team
- Meeting for describing about project information
- Training about IWB, ICT integrated learning (CMU)
- Teachers created lesson plans, learning media
- Planning for assessments
- Meeting for sharing ideas about the plans, learning media
- Revising lesson plans, learning media
Teachers meeting & Training
Implementation

- Launching 6 learning subjects including 3 lesson plans in each subject
- VDO Camera for monitoring on student behaviors
- Quiz after completing all lesson plans
- Attitude questionnaires at the end
Example Lesson plan ; Math

• Topic : Time inspire                     Level : grade 4

• Lesson period: 50 minutes

• Learning objective : students can tell the time that showed on real clock

• Learning process

  • Sing a Time inspire song together (shown on IWB)

  • Divide students into group of 5-7

  • pre-reading from hand-out papers about components of the clock

  • quiz activities ; students asked to move the hour’s hand and minutes hand

  • discuss in group first and send one to solve on IWB

  • conclusion with class discussion
Research finding

- Students showed the learning achievement after IWB integrated learning in very good level.

- Students behavior in all learning subjects at very good level during learning through the integrated IWB.

- Students attitudes in all learning subjects at very good level after learning through the integrated IWB.
Discussion on students achievement

- Students achievement at very good level
  - well-designed of learning process
  - Interesting activities
  - Interactive Multimedia
  - Students interaction with IWB
  - Team Learning
Discussion on students behavior

• Students behavior at very good level

• Concentration
• Collaboration
• Discussion
• Creation
Reflection

• Teachers Meeting for discuss on students achievement

• Sharing experience, discovered, problems

• Planing to share with other teachers who teach in same learning subjects
Keys Finding

- Most important of keys to success is School’s Director
- Teachers attitude and confident
- Teachers network building is the key to large scale
- Teachers opportunities to share what they know, learned from other
- Reflection, Research and development
“Thank you”