

TITLE : The Development of Computer-Assisted Instruction Lesson for Science Subject
Area on the Topic of Water Resources for Prathomsuksa VI Students

AUTHOR : Suntree Chaidee

DEGREE : M. Ed. (Computer Education)

ADVISORS : Dr. Saichol Jinjo

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ABSTRACT

The purposes of the present study were to : 1) develop Computer-assisted Instruction in Water resources base on the value of the efficiency (80/80) 2) to evaluate the quality of Computer-assisted Instruction 3) to compare the achievement through the Computer – Assisted Instruction before and after the learning 4) The Computer – Assisted Instruction before and after the learning 5) to study the student satisfaction with leaning by using Computer-assisted Instruction. and 6) To study the learning retention of the students who learned with the computer – assister instruction. The samples were 15 Prathomsuksa VI students at Ban Phon Thong School selected through simple purposive sampling. The instruments used were the Computer-Assisted Instruction on Water resources an achievement test, an instruction form, a questionnaire on students satisfaction. The statistics used for mean, standard deviation, percentage and t-test (Dependent).

The Results of the research were as follows : 1) The efficiency of learning activity used in the Computer – Assisted Instruction was 86.22/85.33 which was higher than the assigned criteria 80/80 2) The experts opined the quality of Computer – Assisted Instruction at a high level ($\bar{X} = 4.35$, S.D = 0.56) 3) The learning achievement after using the Computer – Assisted Instruction was significantly higher than before learning at .05 level. 4) The effectiveness index of the students was 0.7006 5) The students showed their satisfaction was at the higher level ($\bar{X} = 4.64$, S.D = 0.55) and 6) The learning retention of the students were in the assigned criteria. (7.33, 17.66)