

**TITLE : The Development of Computer Assisted Instruction Program Entitled
Animal for Prathomsuksa 1**

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ABSTRACT

The purposes of this research were to 1) develop the CAI with the efficiency value of 80/80, 2) evaluate the quality of the CAI, 3) compare the achievement through the CAI after and before learning, 4) study the effectiveness index learning and 5) study the students' satisfaction with learning by using the CAI. The samples were 33 Prathomsuksa 1 students, selected through simple random sampling, at Bansiyaksomdet School. The instruments used were the CAI lesson, an achievement test, an instruction evaluation form, and a questionnaire on students' satisfaction. The statistics used for analyzing data were percentage, mean, standard deviation, and t-test (dependent). The results of the research were as follows. 1) The efficiency of the CAI was 87.95/82.83 which was higher than the assigned criteria, 2) The experts opined the quality of CAI at a high level ($\bar{X} = 4.77, S.D.=0.42$) 3) The learning achievement after using the CAI was significantly higher than before learning with CAI different at .05 level. 4) The effectiveness index of the CAI was 0.6199 and 5) The students showed their satisfaction at a high level ($\bar{X} = 4.62, S.D.= 0.62$) 6) Study the retention of the students after studying with the developed instruction program.

Results of the research were as follows :

1. The average degree of the program determined by E_1/E_2 was higher than the assigned criteria of the efficiency 80/80.
2. The average opinion of the experts on the computer-assisted instruction was very high. ($\bar{X} = 4.77, S.D.=0.42$)
3. The academic achievement was significantly higher than before learning at the .05 level
4. The effectiveness index of lesson was 0.6188
5. The students' overall satisfaction with the learning was in the very high level.
($\bar{X} = 4.62, S.D.= 0.62$)
6. The learning retention of the students were in the assigned criteria.



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