Jintana Tantisakornket 2010: Effects of Computer Assisted Instruction Application on Reading Skill in Thai Spelling of Preschool Children. Master of Education (Early Childhood Education), Major Field: Early Childhood Education, Department of Education. Thesis Advisor: Assistant Professor Chalatip Samahito, Ed.D. 102 pages.

The purpose of this research was to study effects of computer assisted instruction application on reading skill in Thai spelling of preschool children.

The subjects used in this research consisted of 30 male and female preschool children ranging in age from 5 to 6 years old and were studying in kindergarten level 3 class in the second semester year of 2009. Subjects were selected by using cluster sampling technique from Sriarunotai school, Muang district, Ranong province. The instruments were 30 plans of computer assisted instruction experience provision and the test of reading skill in Thai spelling. The obtained data was analyzed by mean, standard deviation, dependent t-test and independent t-test.

The results of this research showed that: 1) preschool children who received the experience provision with computer assisted instruction had higher reading skill in Thai spelling scores than before received the experience provision with computer assisted instruction at the level of .05 significance; 2) preschool children who received the experience provision with computer assisted instruction had higher reading skill in Thai spelling scores than preschool children who received the experience provision in the general classroom at the level of .05 significance.

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