

Sudarat Limsedthanuwat 2014: Development of Web-based Instruction Using Scratch Program for Prathomsuksa 6 Students. Master of Education (Educational Communications and Technology), Major Field: Educational Communications and Technology, Department of Educational Technology. Thesis Advisor: Associate Professor Narong Sompong, Ph.D. 114 pages.

The objectives of this research were: 1) to develop and find out the quality and efficiency of web-based instruction using Scratch program at 80/80 criteria, 2) to compare pre-test scores and post-test scores after studying through by web-based instruction using Scratch Program, 3) to evaluate product with scratch program, and 4) to study students' satisfaction toward web-based instruction using Scratch program.

The research sample was 25 students by using cluster sampling technician from Prathomsuksa 6 students at Watdonyao School in the second semester of 2013 academic year. The research tools were web-based instruction using Scratch program, quality evaluation form, pretest and achievement test, and the questionnaire. Data were analyzed by percentage, mean, standard deviation and dependent t-test.

The research result show that:1) the efficiency of web-based instruction using scratch program was evaluated by experts as "very good" and technical experts as "good" quality and efficiency was 88.28/84.25 criteria, 2) the students post-test scores after studying through web-based instruction using Scratch program were higher than pre-test scores at the level of .05 significance, 3) product creating with scratch program was good quality, and 4) the students' satisfaction toward web-based instruction using scratch program were at the most level ($\bar{X} = 4.60$).

Student's signature

Thesis Advisor's signature